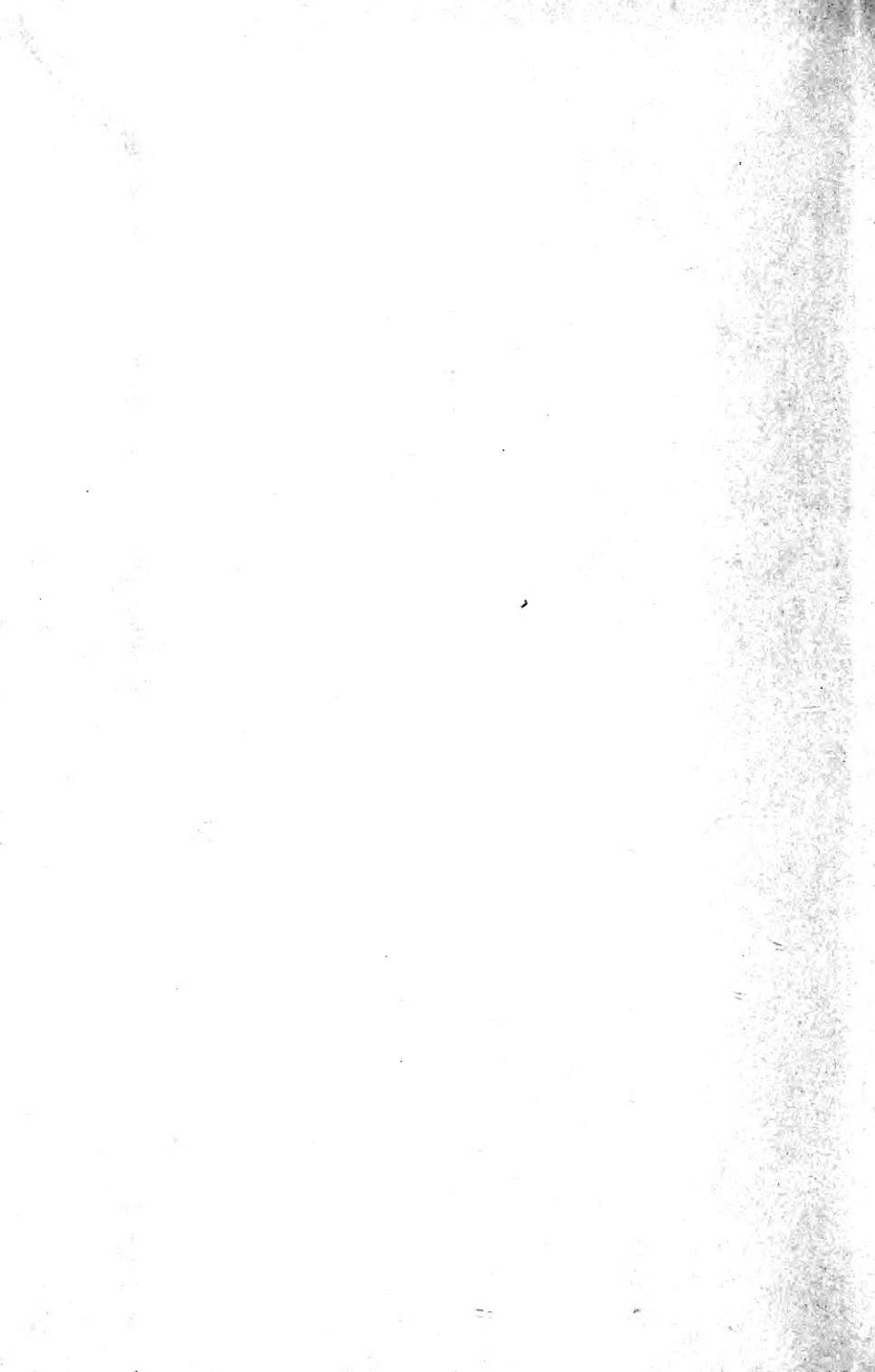
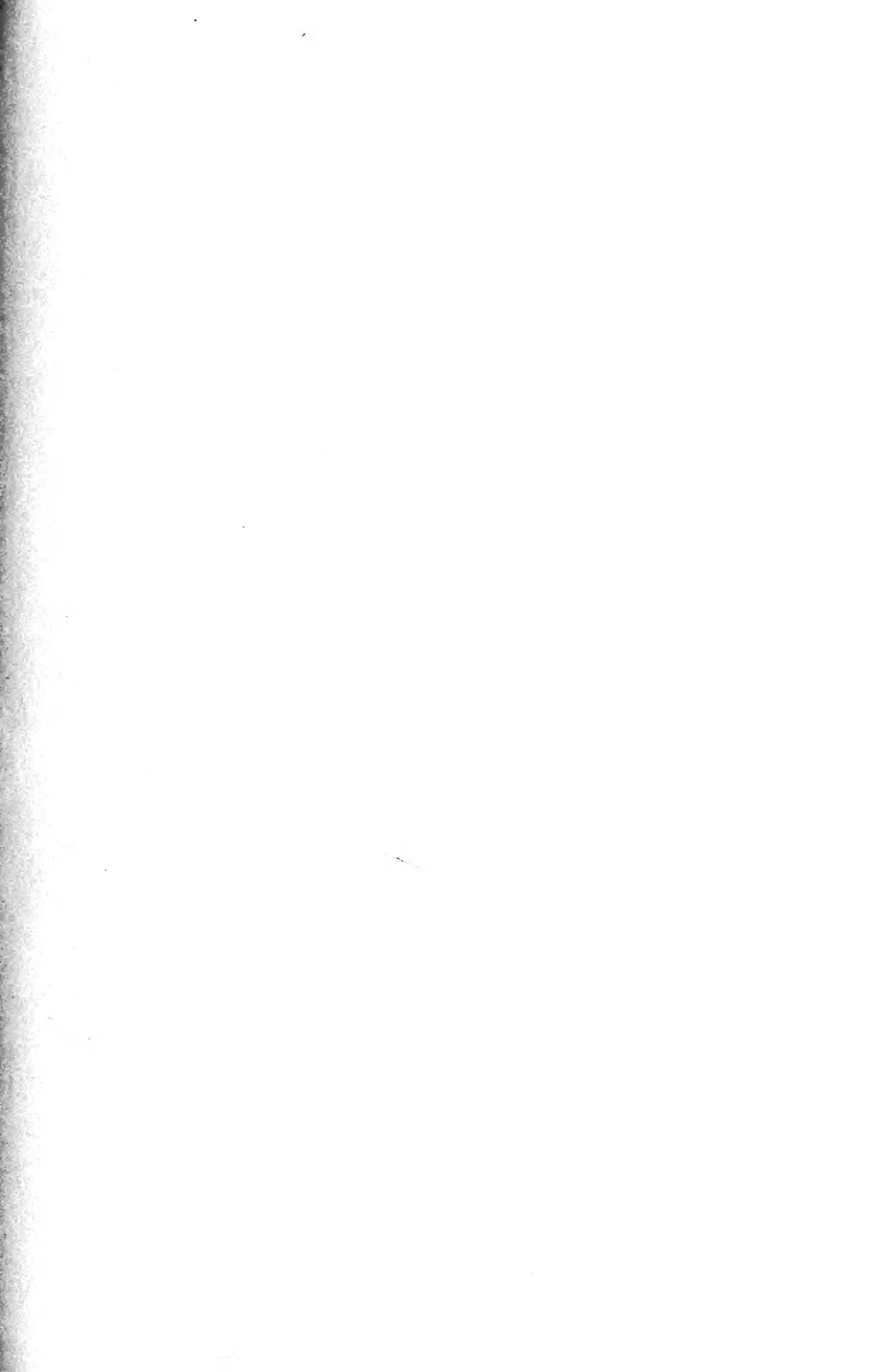


UNIVERSITY OF TORONTO



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I

PALÉONTOLOGIE FRANÇAISE

PALÉONTOLOGIE FRANÇAISE

PALÉONTOLOGIE FRANÇAISE
OU
DESCRIPTION
DES FOSSILES DE LA FRANCE

continué
PAR UNE RÉUNION DE PALÉONTOLOGISTES

SOUS
LA DIRECTION D'UN COMITÉ SPÉCIAL

2^e Série. — VÉGÉTAUX

PLANTES JURASSIQUES

PAR
LE COMTE DE SAPORTA

—
TOME II
—

Cycadées

ATLAS

PARIS

G. MASSON, ÉDITEUR
LIBRAIRE DE L'ACADÉMIE DE MÉDECINE
Place de l'École-de-Médecine, 17.

1873

33360
575/94

PALEONTOLOGIE FRANÇAISE
DESCRIPTIVE
DES FOSSILES DE LA FRANCE
PAR UNE REUNION DE PALEONTOLOGISTES
LA DIRECTION DES COMITES SCIENTIFIQUES

9. Série - VÉGÉTAUX

QE

755

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07

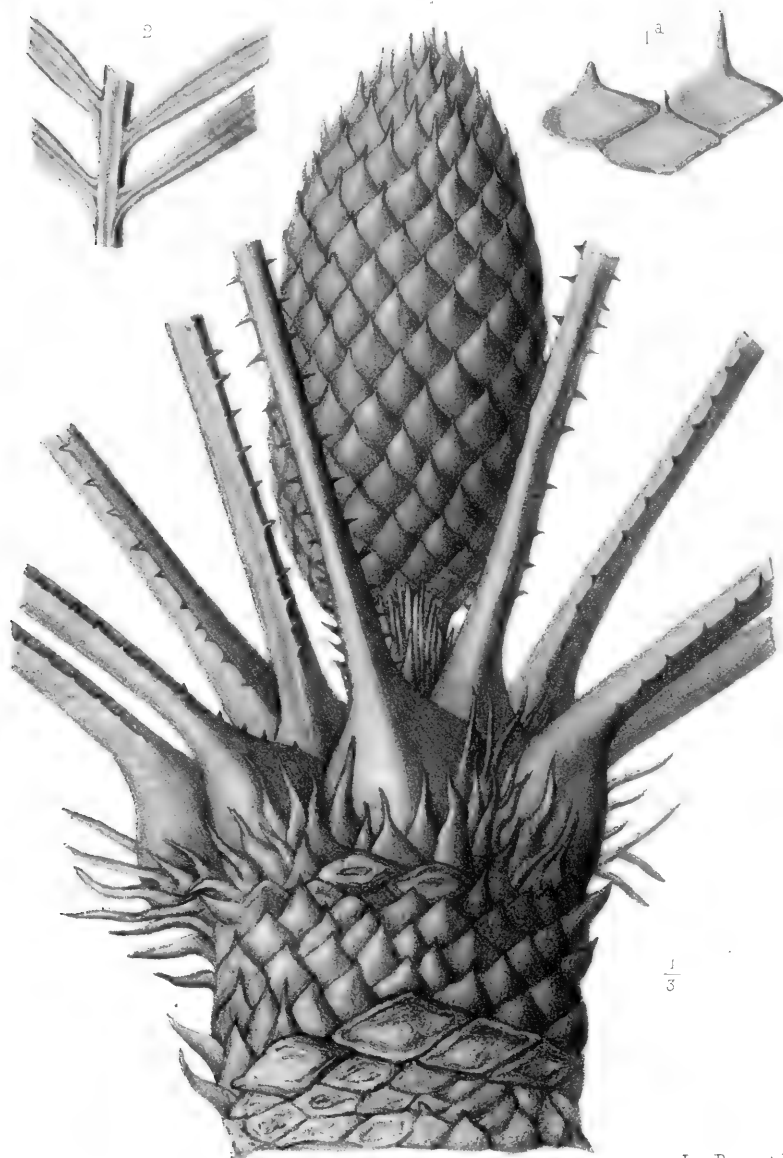
Sect. B

2. Ser.

t. 2

ATLAS

GE. MASSON, ÉDITEUR
ALBANY DE L'ÉCOLE DE MÉDECINE
1873



Fornant lith.

G. Masson, Editeur.

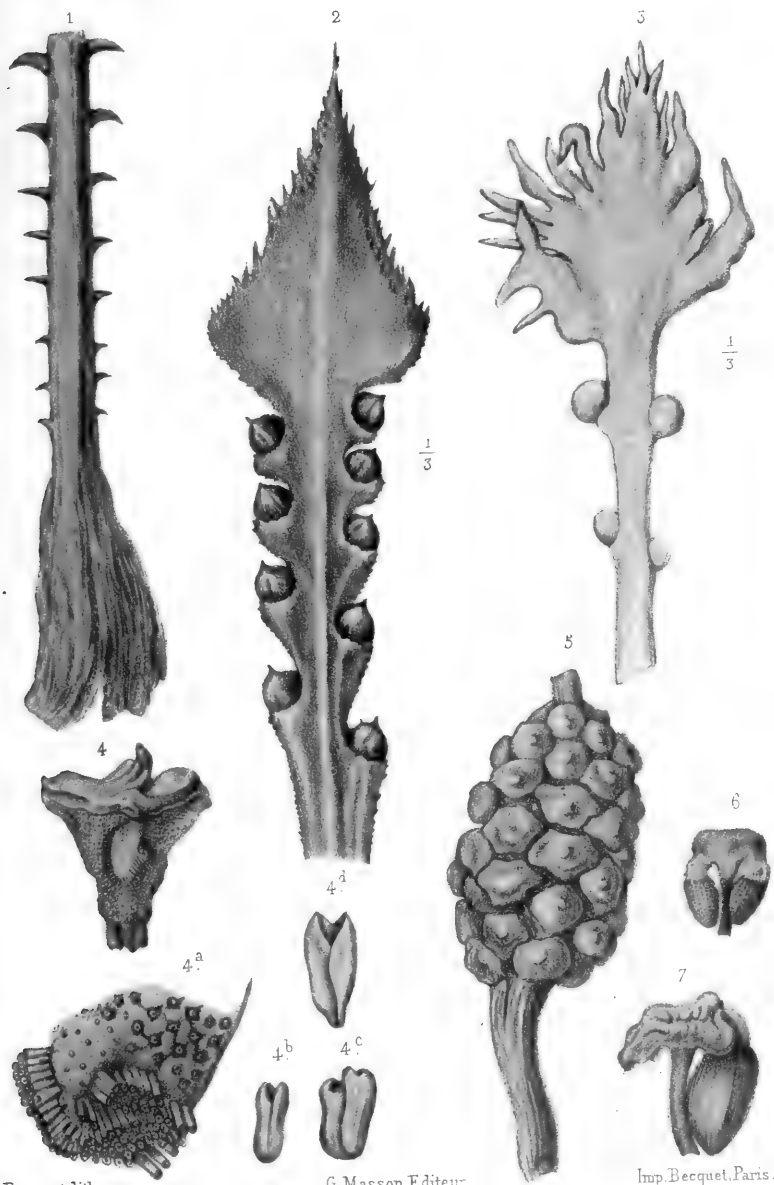
Imp. Becquet, Paris.

CYCADÉES ACTUELLES (organes caractéristiques.)

1. *G. Cycas* (tige surmontée d'un cône mâle.)
2. — — — (portion de fronde.)

T. Jurassique. Végétaux.

PL. LXXII.



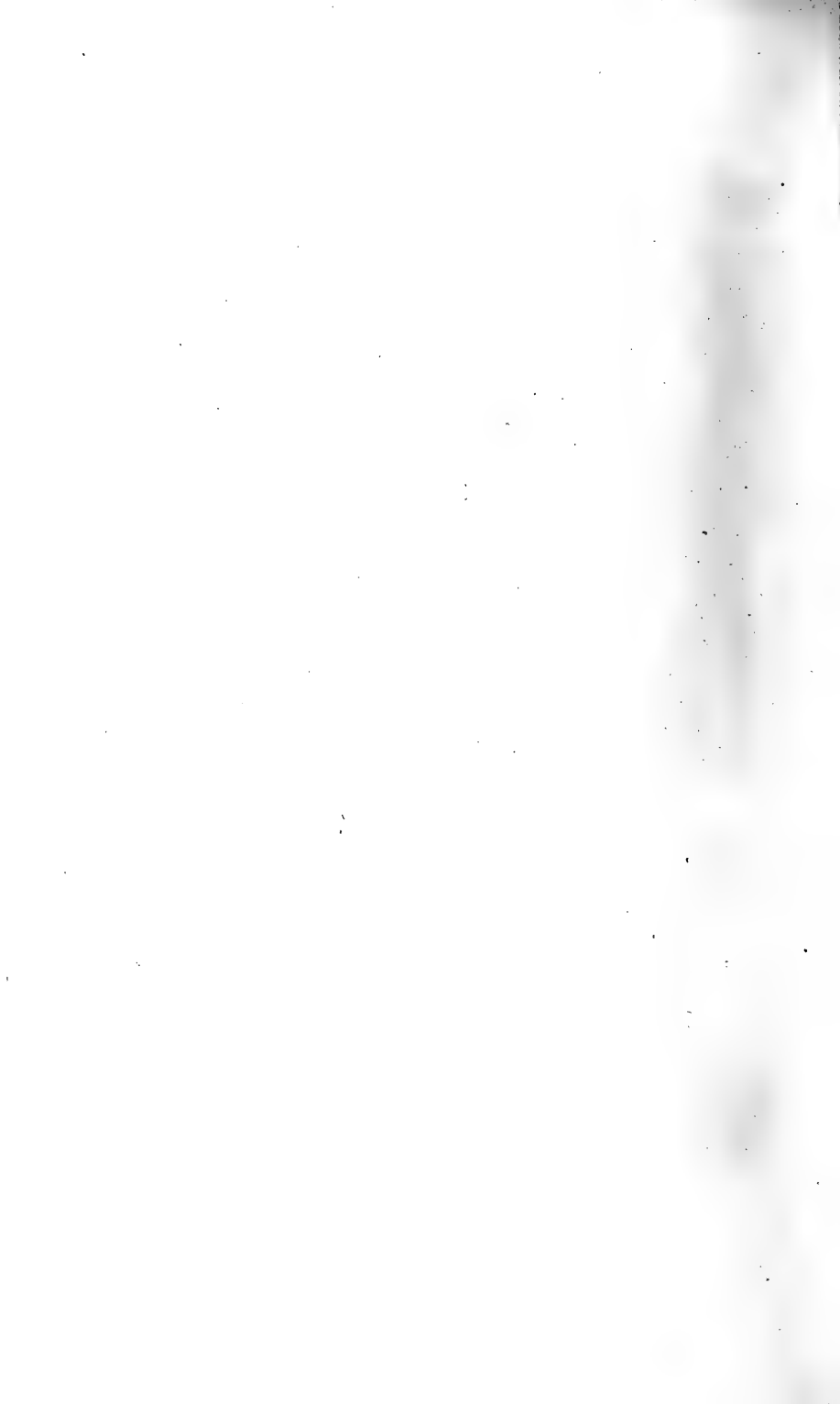
Formant lith.

G. Masson Editeur

Imp. Becquet, Paris.

CYCADÉES ACTUELLES (organes caractéristiques.)

- | | |
|---------------------------------------|-------------------------------------|
| 1. <i>G. Cycas</i> (base de fronde.) | 4. <i>G. Cycas</i> (androphylle.) |
| 2-3. — — — (carpophylles.) | 5. <i>G. Zamia</i> (cône femelle.) |
| 6-7. <i>G. Zamia</i> (carpophylles.) | |

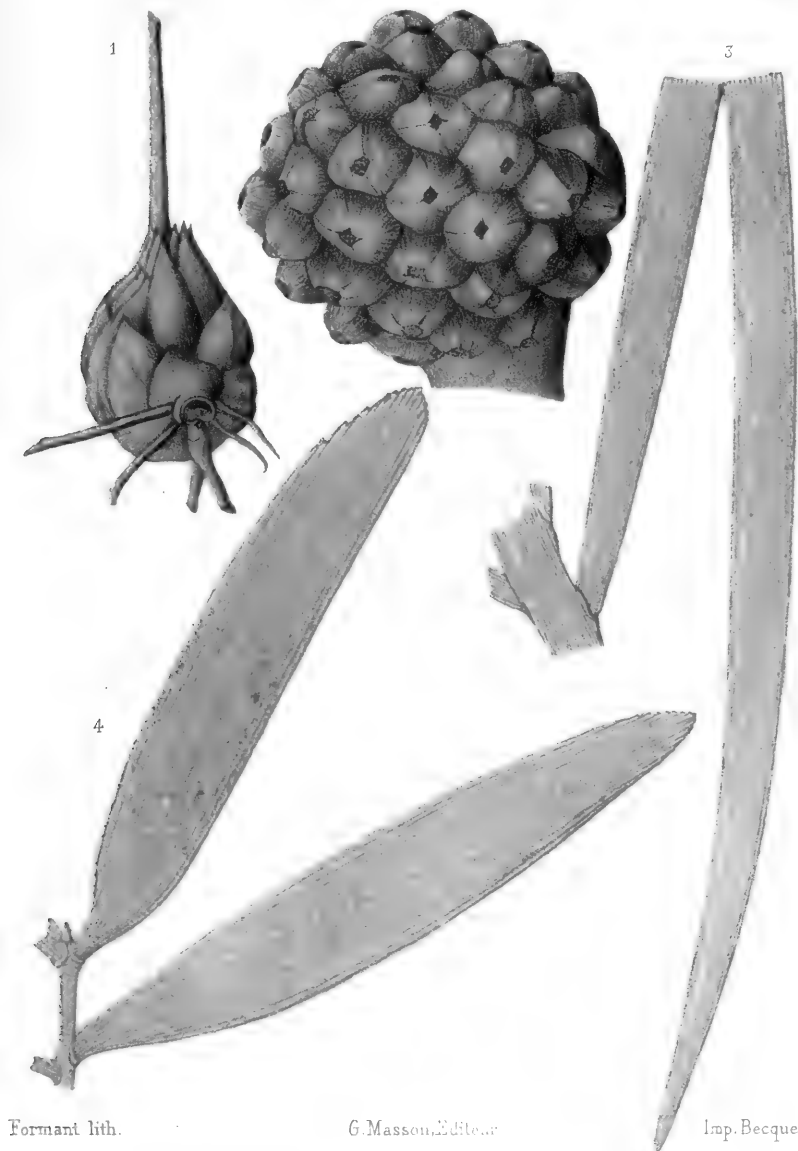


2

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4



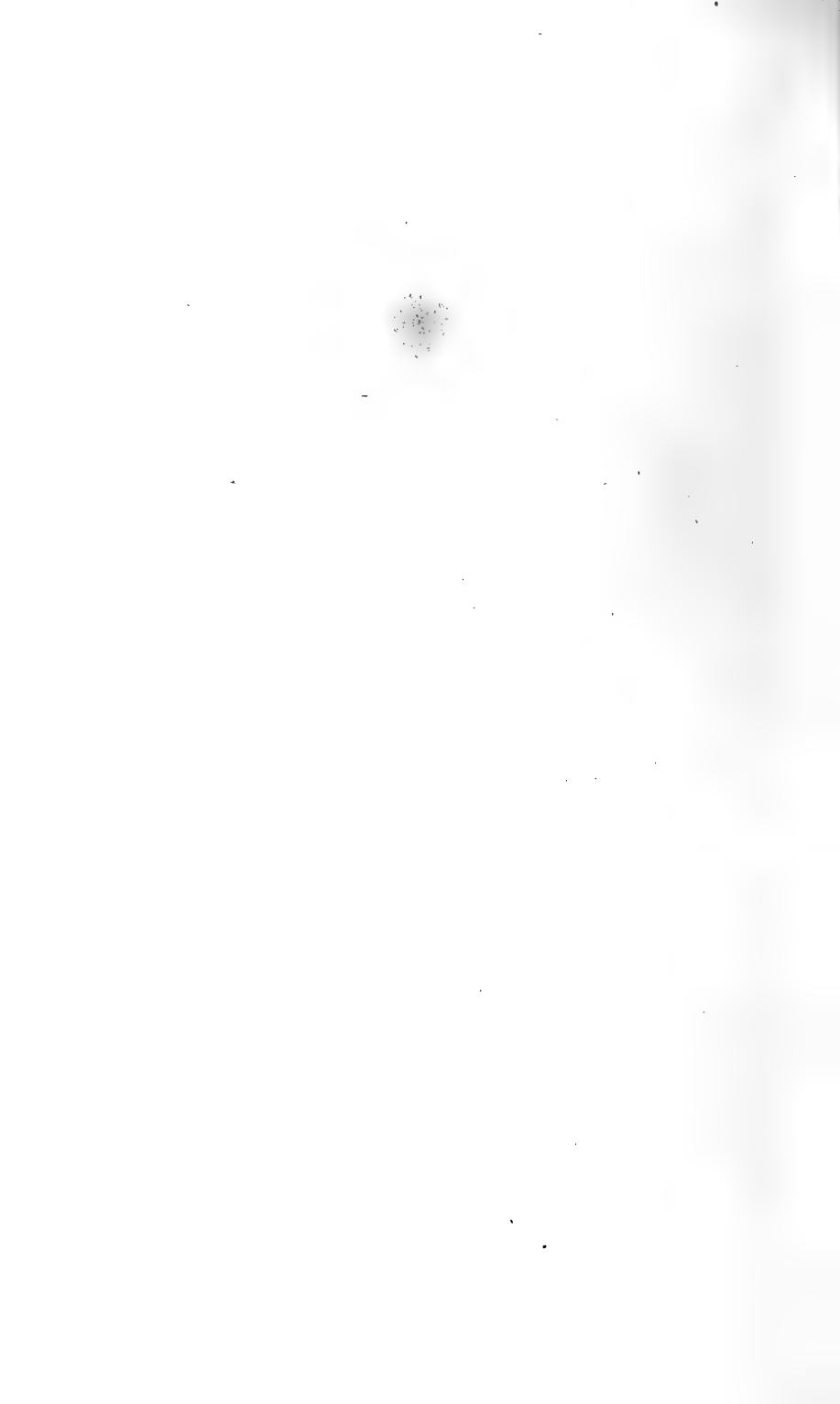
Formant lith.

G. Masson, Editeur

Imp. Becquet, Paris

CYCADÉES ACTUELLES (organes caractéristiques.)

- | | |
|-----------------------------------------|-------------------------------------------|
| 1. <i>G. Encephalartos</i> (propagule.) | 3. <i>Macrozamia</i> (portion de fronde.) |
| 2. ————— (cône femelle.) | 4. <i>G. Zamia</i> (sommite de fronde.) |



1

2

3

1^a

$\frac{1}{2}$

Formant lith.

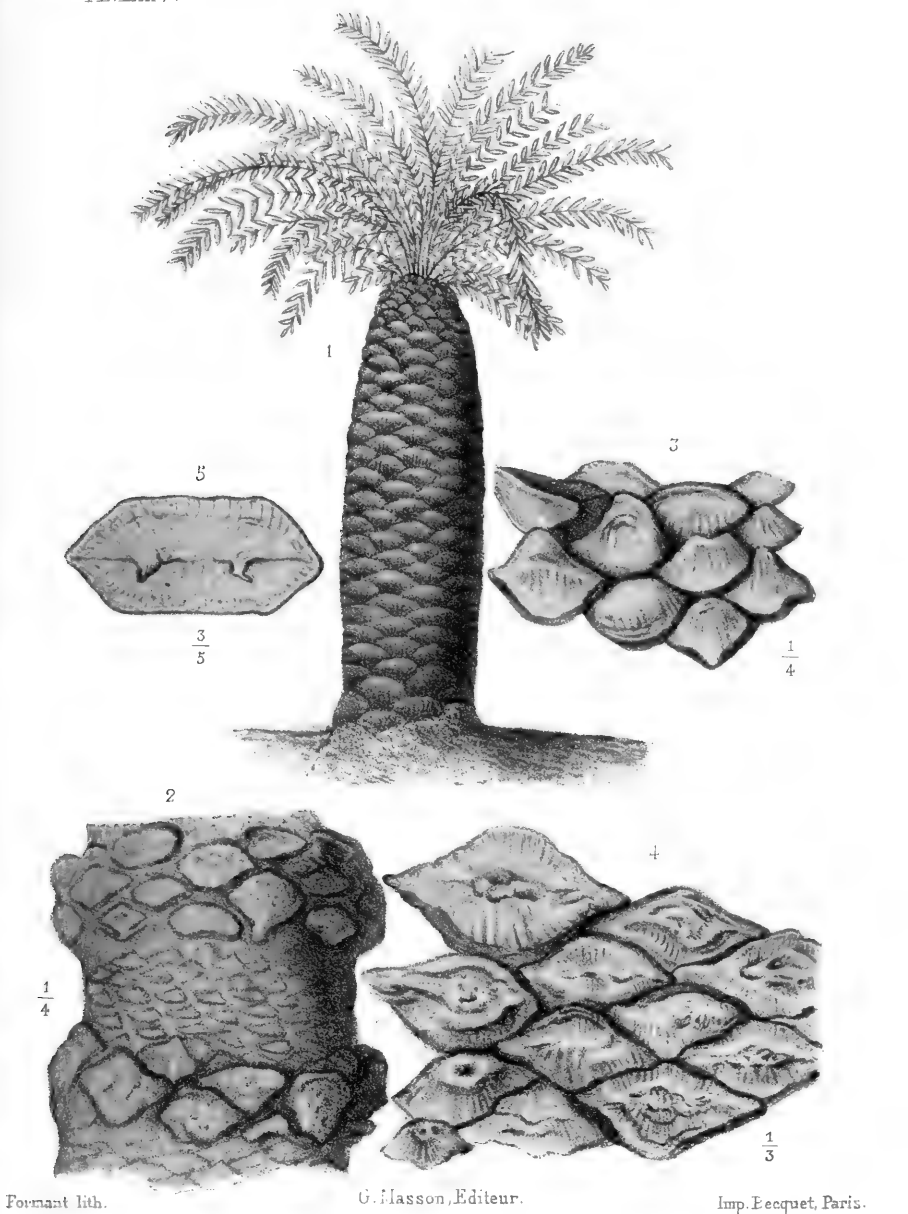
G. Masson, Editeur.

Imp. Becquet. Paris.

CYCADÉES ACTUELLES (organes caractéristiques.)

1-3. *G. Encephalartos* (portion de fronde et pinnules.)

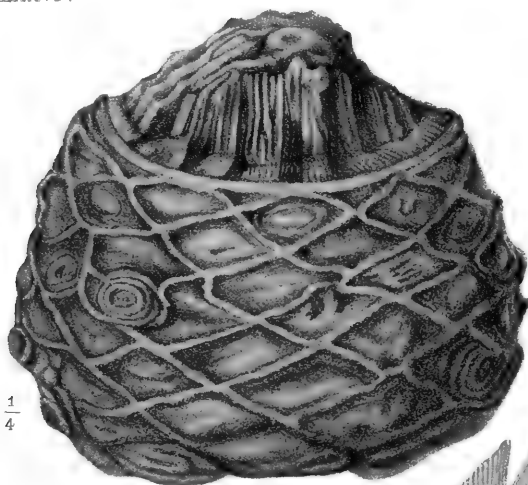




CYCADÉES ACTUELLES (organes caractéristiques.)

- | | |
|--------------------------------------------------|--------------------------------------------|
| 1. <i>G. Encephalartos</i> (port général.) | 3. <i>G. Cycas</i> (appendices corticaux.) |
| 2. <i>Zamia calocoma</i> D.C. (portion de tige.) | 4. <i>G. Dioon</i> (id.) |
| 5. <i>G. Ceratozamia</i> (Carpophylle.) | |

1



$\frac{1}{4}$

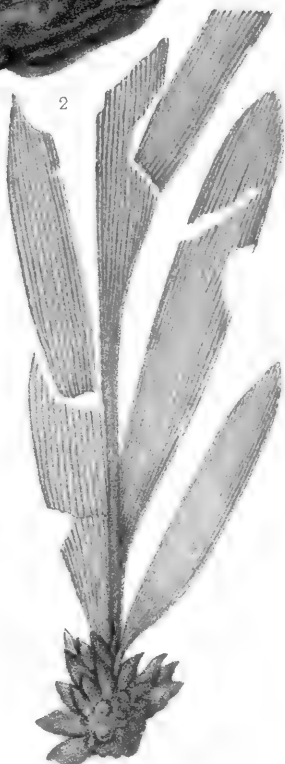
3



4



2



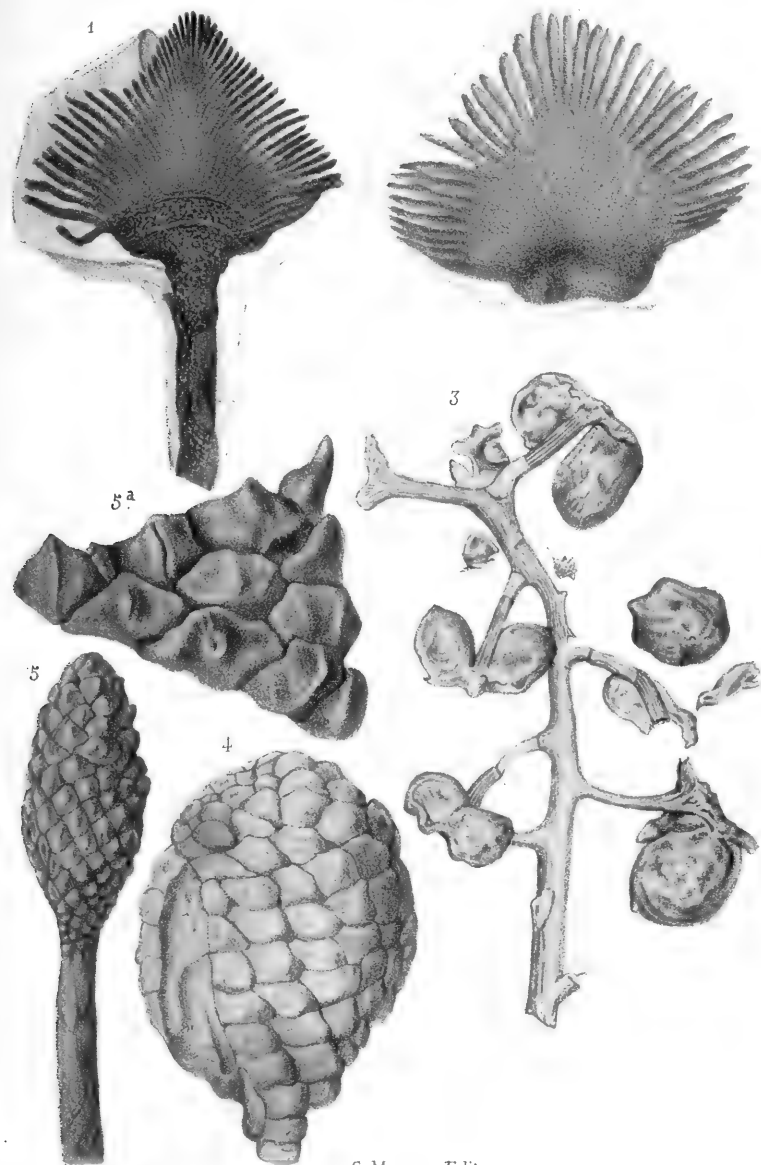
Formant lith.

G. Masson. Éditeur.

Imp. Decquet 1861

CYCADÉES FOSSILES (organes caractéristiques.)

1. Cycadeoidea (Echinostachys) microphylla, Buckl.
2. Podozamites distans, Presl. (plante jeune ou propagule.)
- 3-4. Otozamites sp. (plantes jeunes.)



Formant lith.

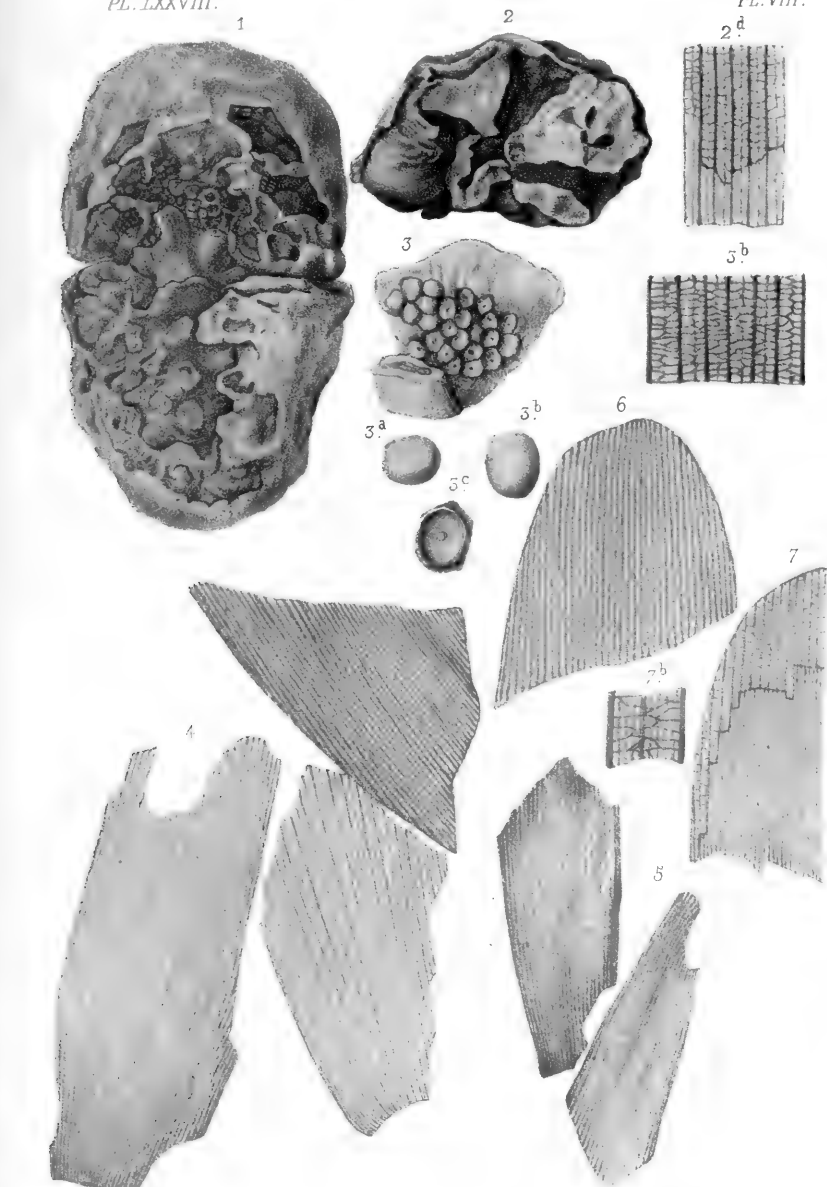
G. Masson, Editeur.

Imp. Becquet Paris.

CYCADÉES FOSSILES (organes caractéristiques.)

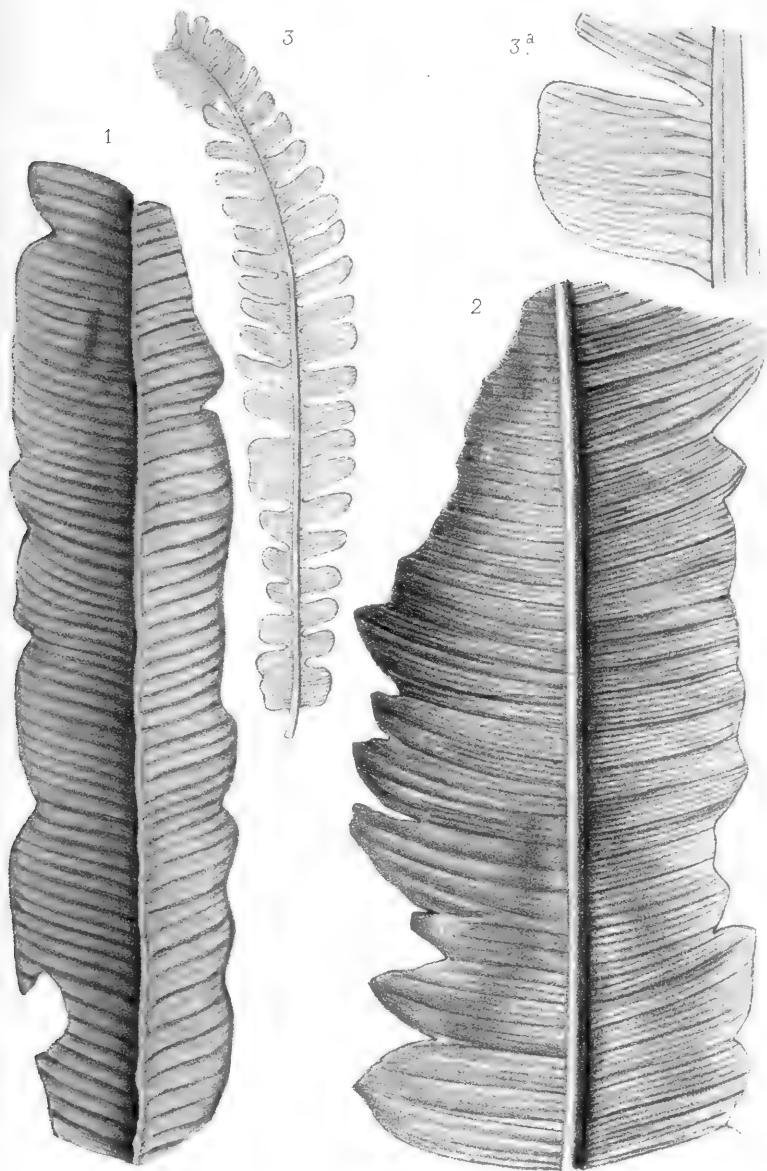
- | | |
|-----------------------------------------------------------|---------------------------------------------------|
| 1-2. <i>G. Cycadospadix</i> , Schimp. (spadices femelles) | 4. <i>G. Zamiostrobus</i> , Endl. (cône femelle.) |
| 3. <i>G. Beania</i> , Carruth. (cône femelle.) | 5. Cône de <i>Zamiée</i> tertiaire. |





CYCADÉES FOSSILES (organes caractéristiques.)

1. Zamostrobus (Androstrobus) Guerangeri, Brngt. (cône mâle.)
 7. G. Næggerathia, Sternb. (folioles.)



Formant lith.

G. Masson, Editeur.

Imp. Becquet, Paris.

1-2. *Nilssonsonia brevis*, Brongn.

3. *Anomozamites inconstans*, Schimp.

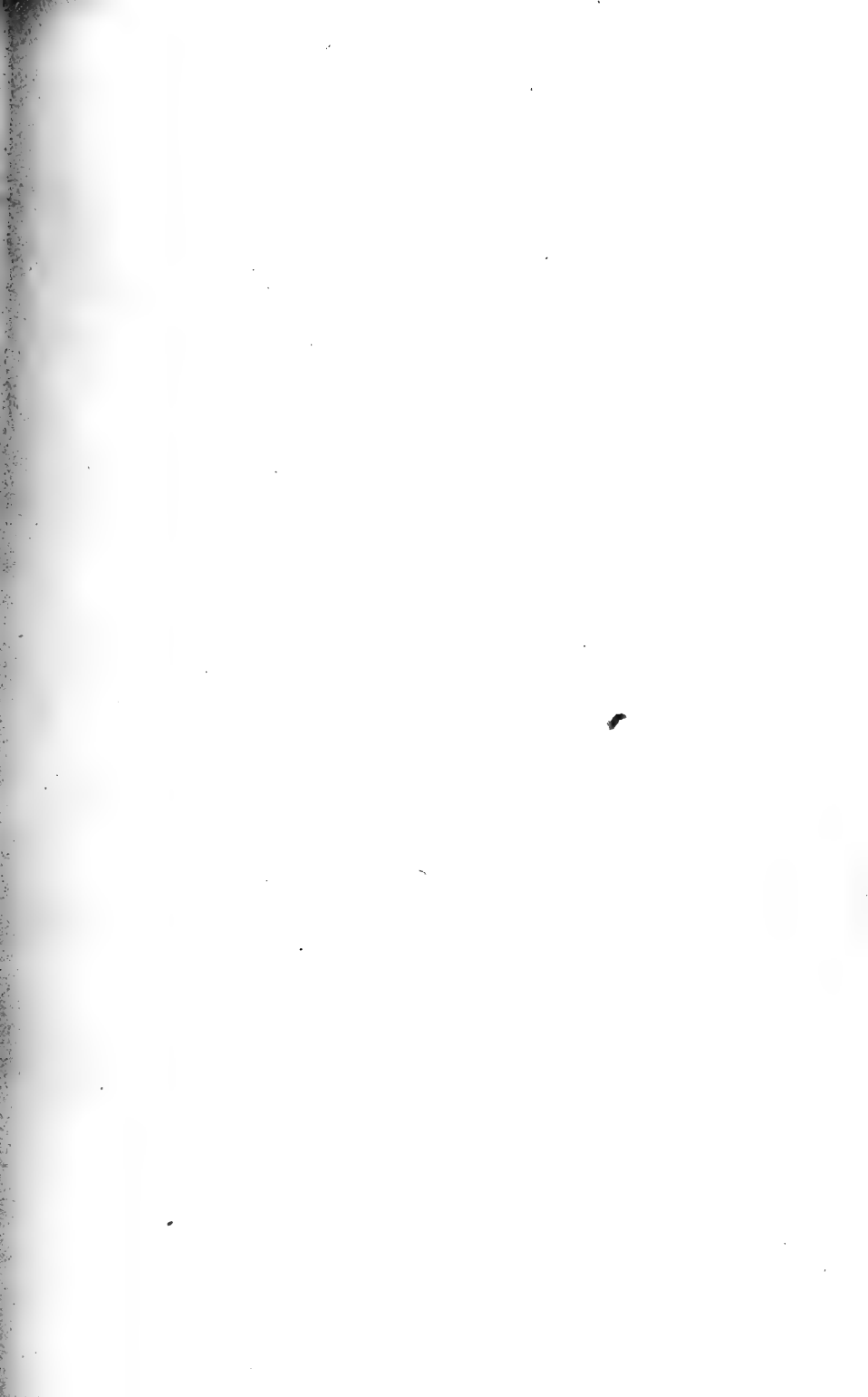


Formant lith.

G. Masson, Editeur.

Imp. Becquet, Paris.

1. *Pterophyllum Jægeri*, Brongn.
2. *Ctenophyllum Braunianum*, Schimp.



1

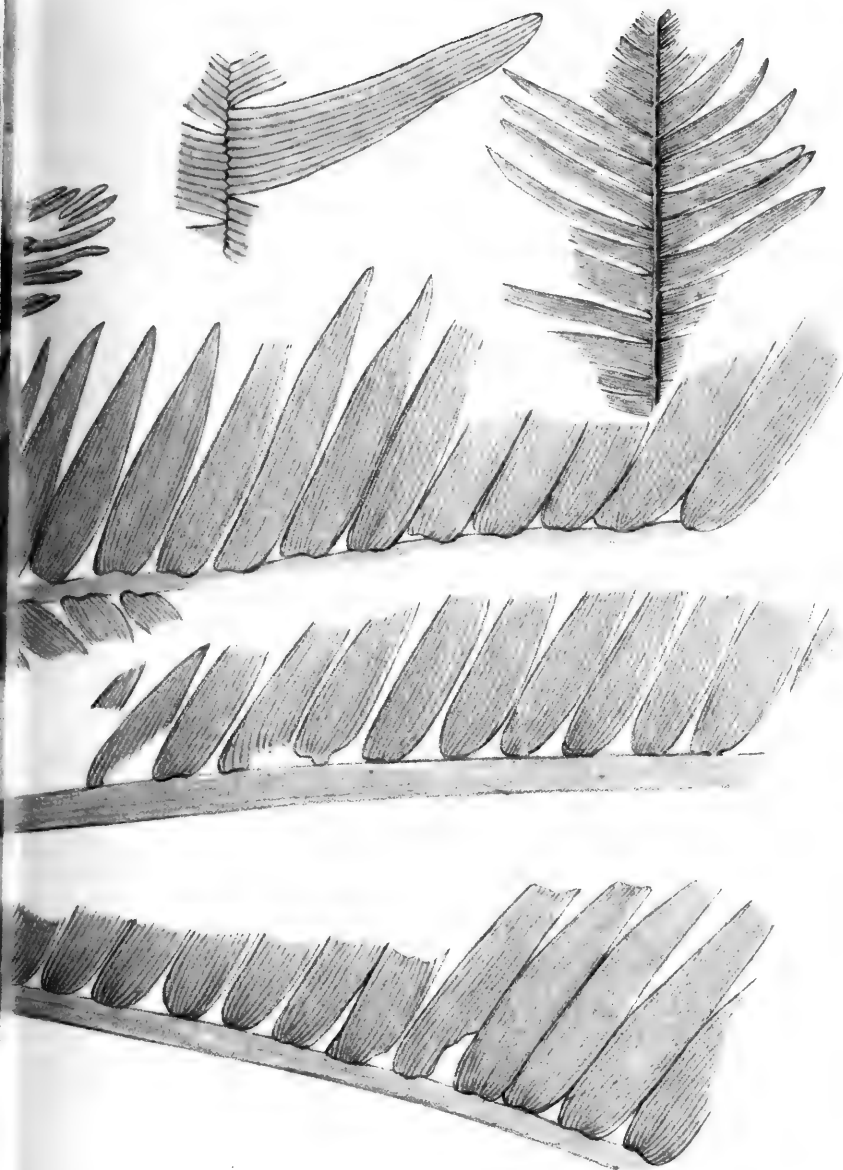


Formant lith.

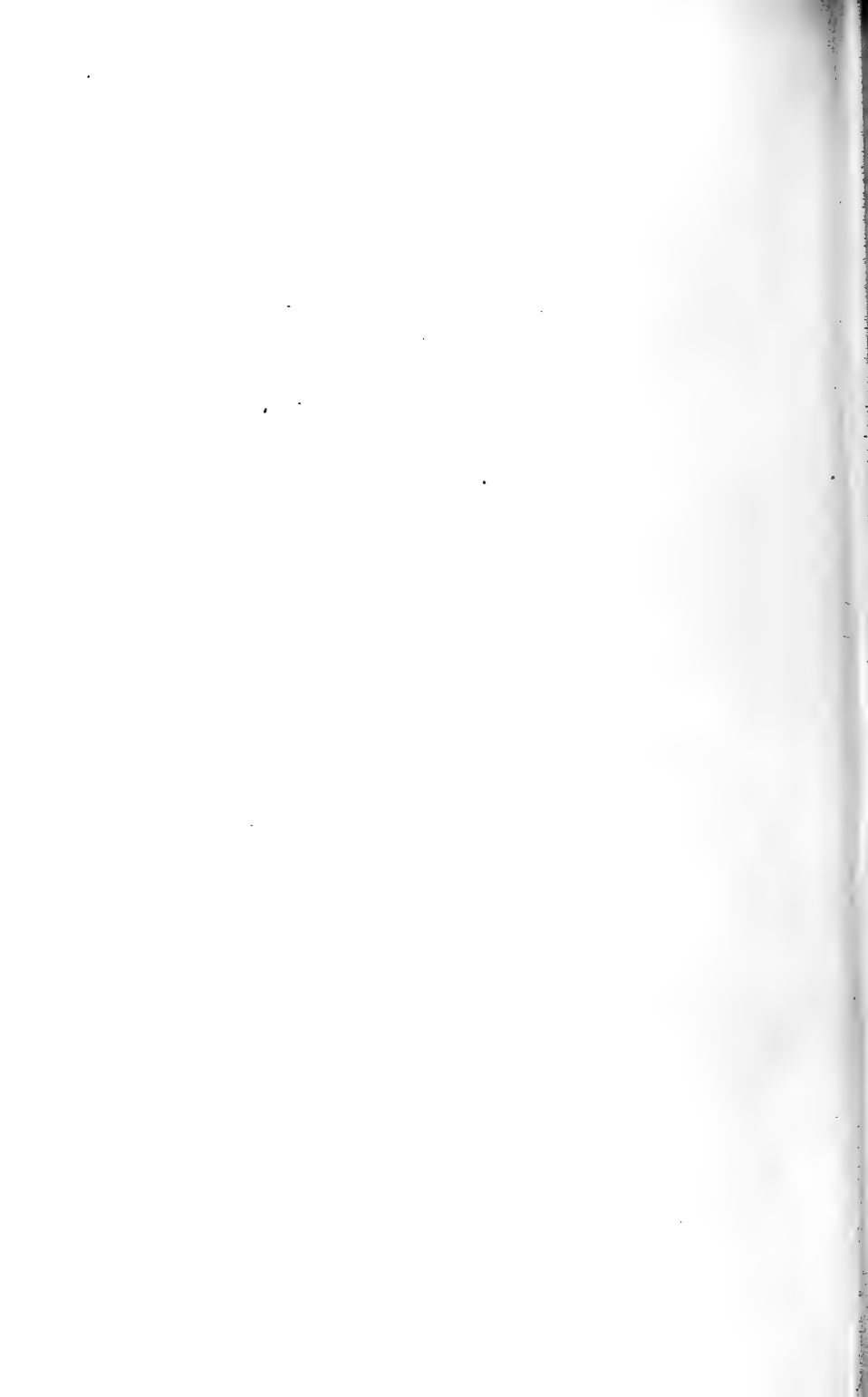
1. Zamit
2. Dioor

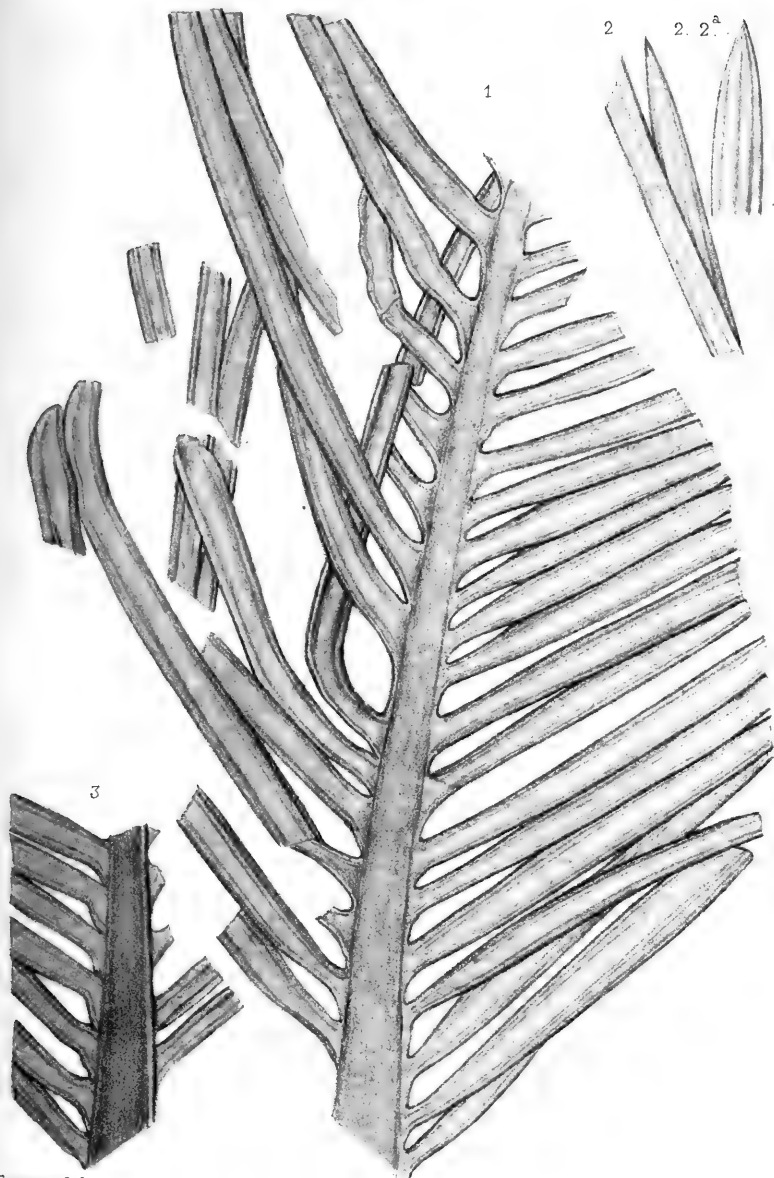
2^a

2



Imp. Becquet. Paris.



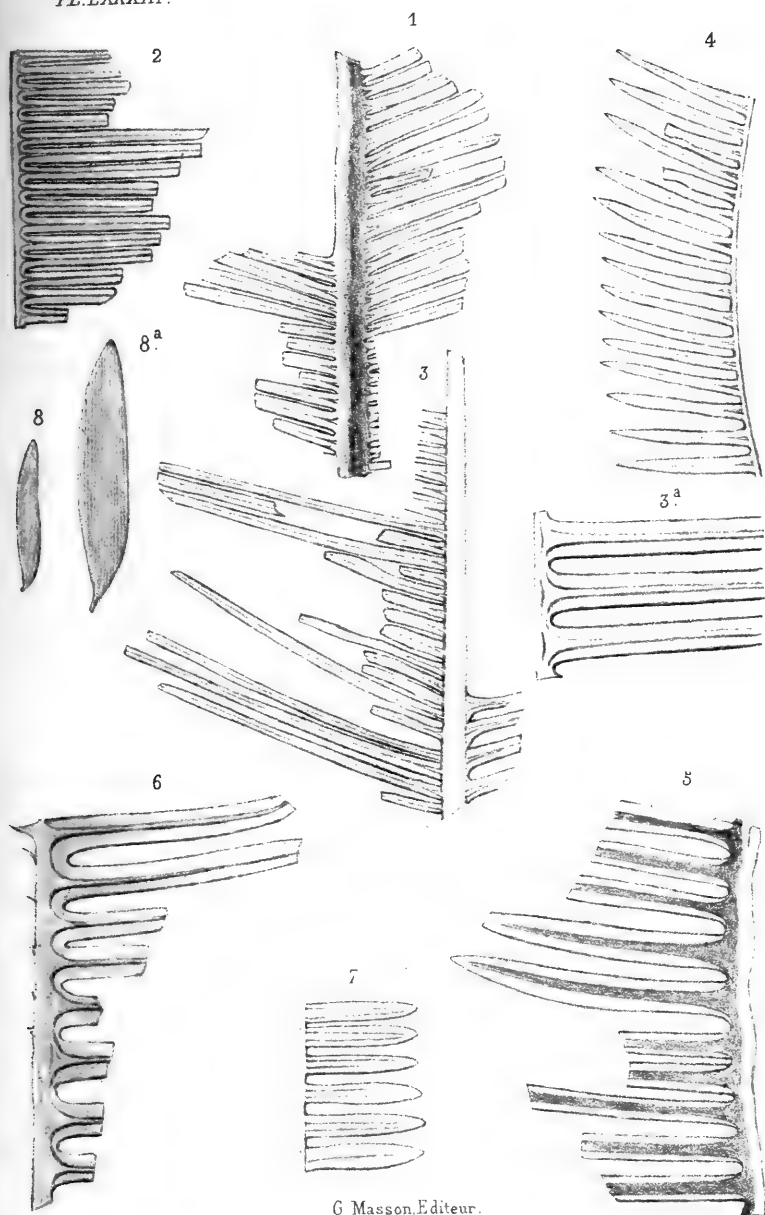


Formant lith.

G. Masson, Editeur.

Imp. Becquet, Paris.

1-3. *Cycadites Lorteti*, Sap.



G. Masson, Editeur.

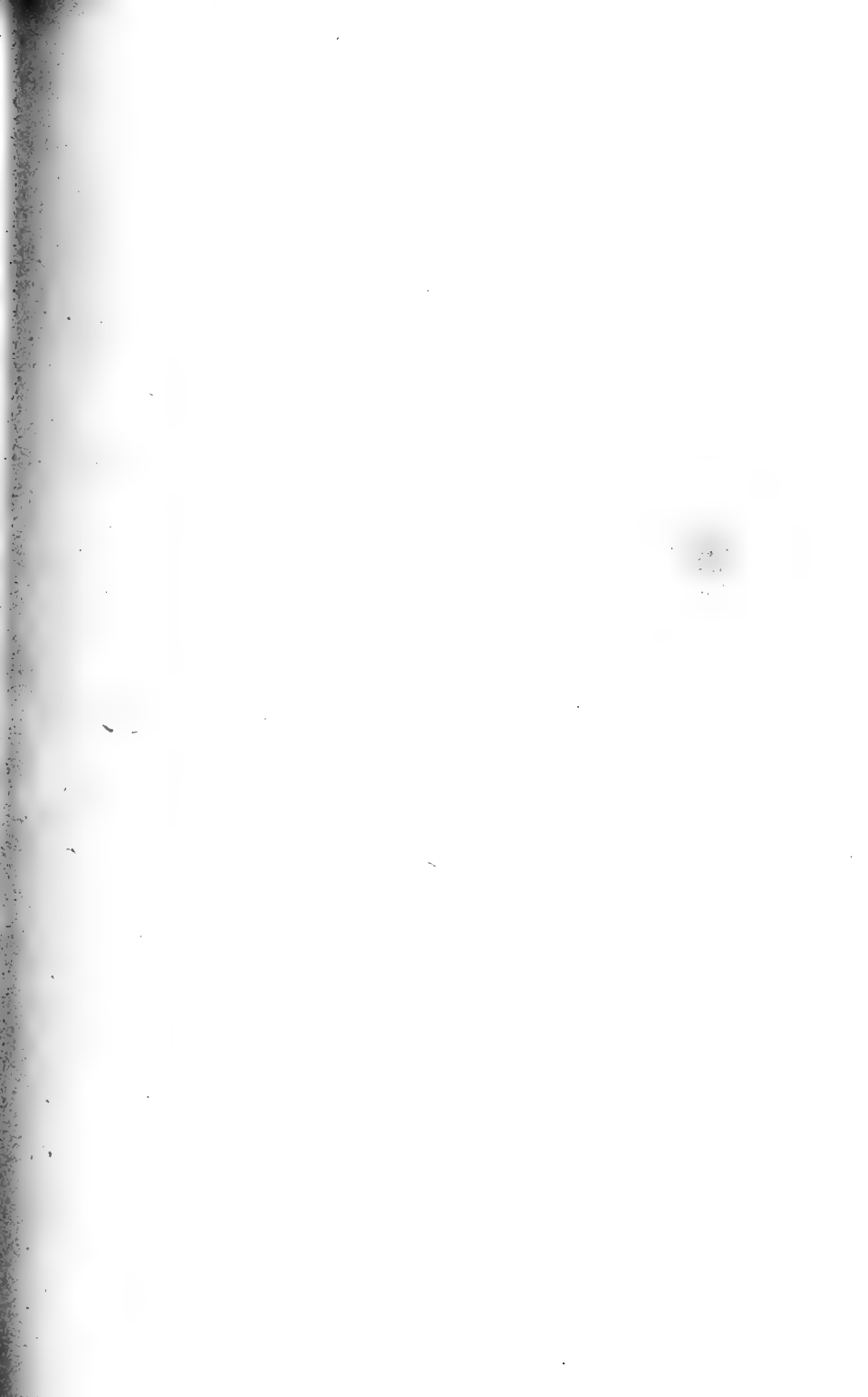
Formant lith.

Imp. Becquet Paris.

1-4. *Cycadites rectangularis*, Brauns.

5-7. *C. ——— Delessei*, Sap.

8. *Podozamites parvulus*, Sap.



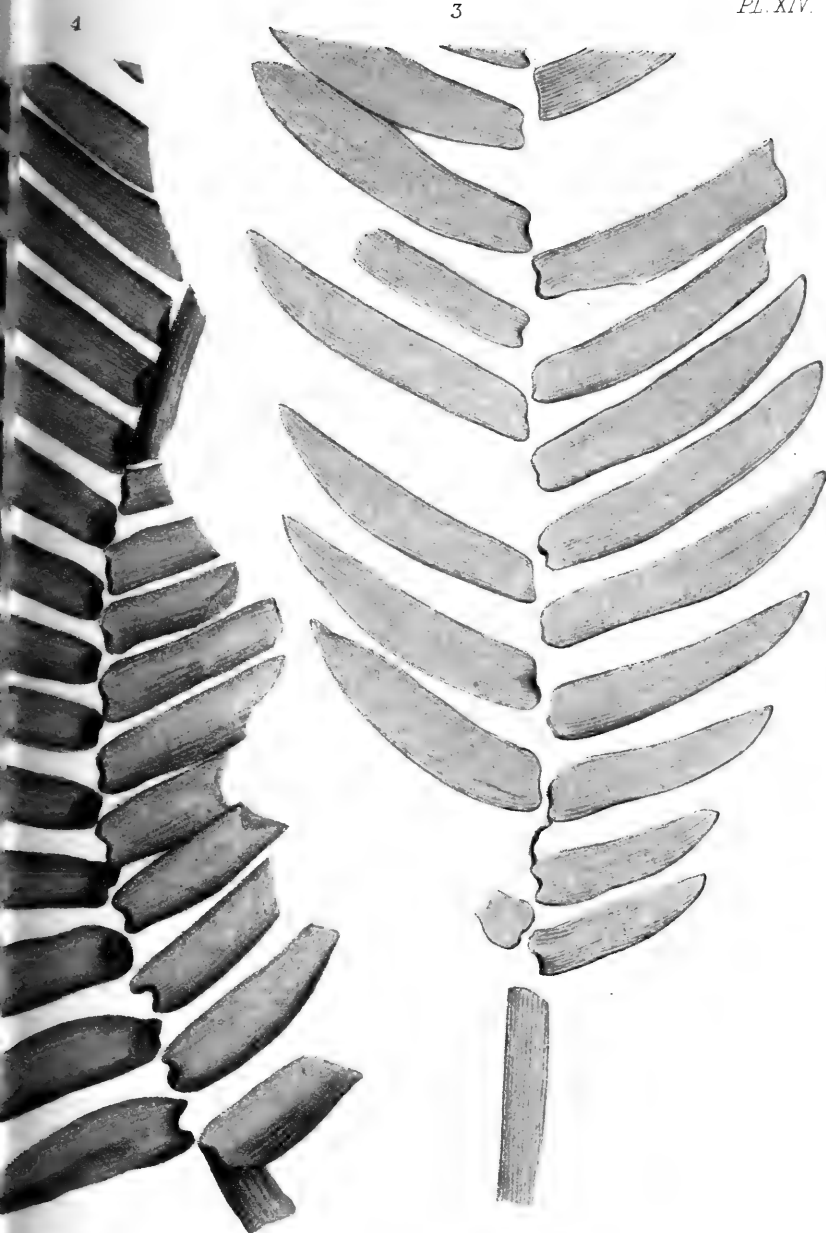
T. Jurassique. Végétaux.

PL. LXXXIV.

2



Formant lith.

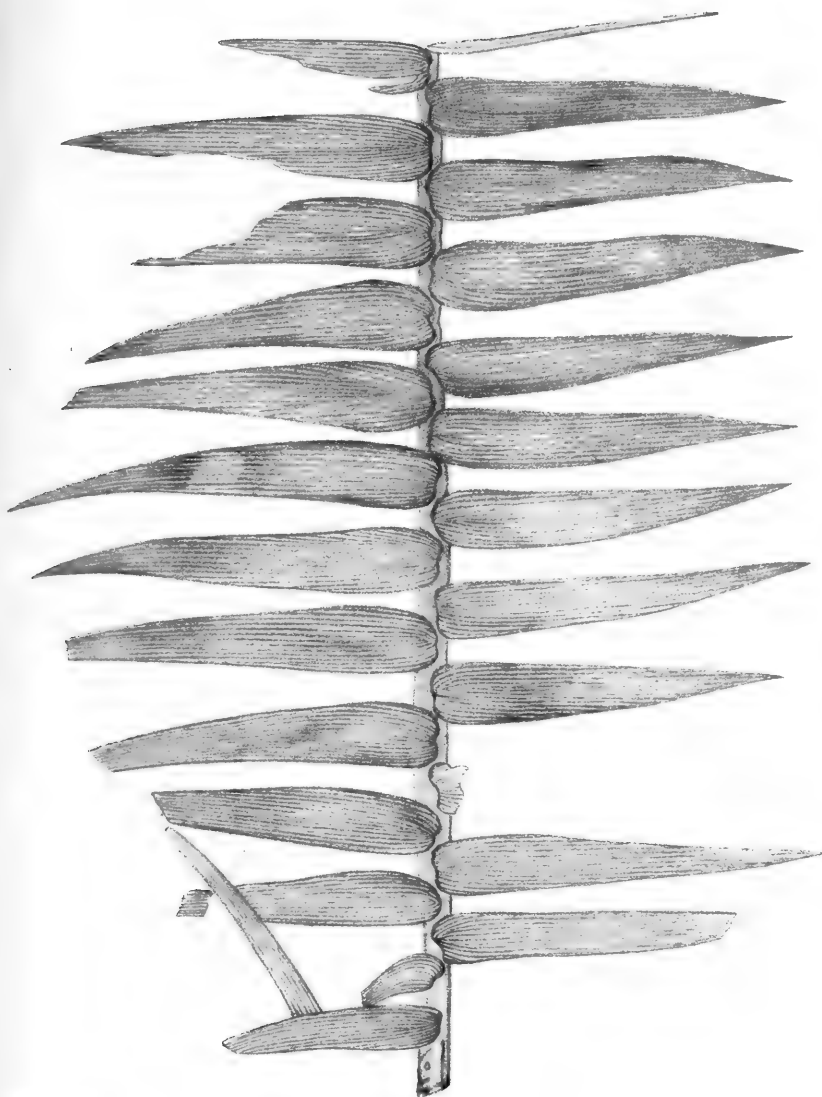




Formant lith.

G. Masson, Editeur.

Imp. Becquet, Paris.



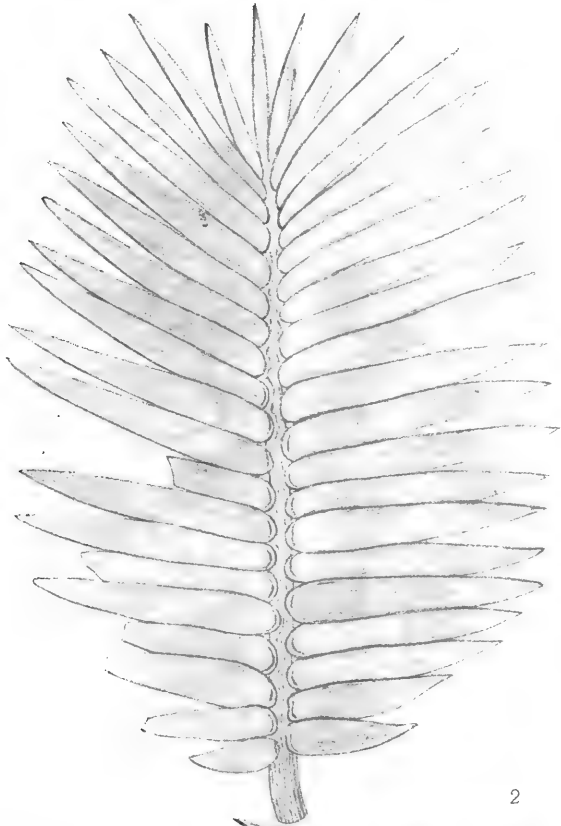
Formant lith.

G. Masson, Editeur.

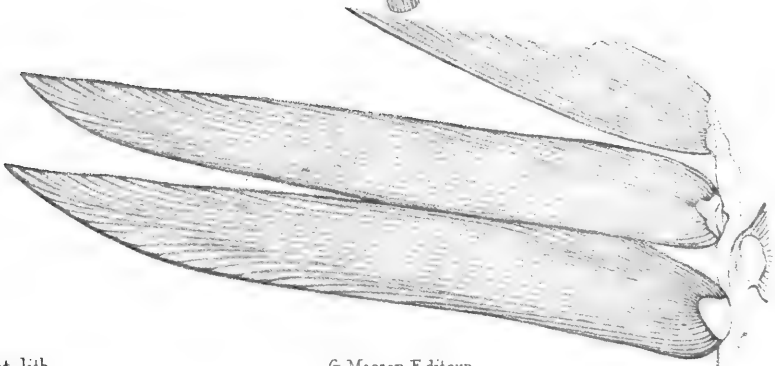
Imp. Becquet, Paris.

Zamites acerosus, Sap.

1



2

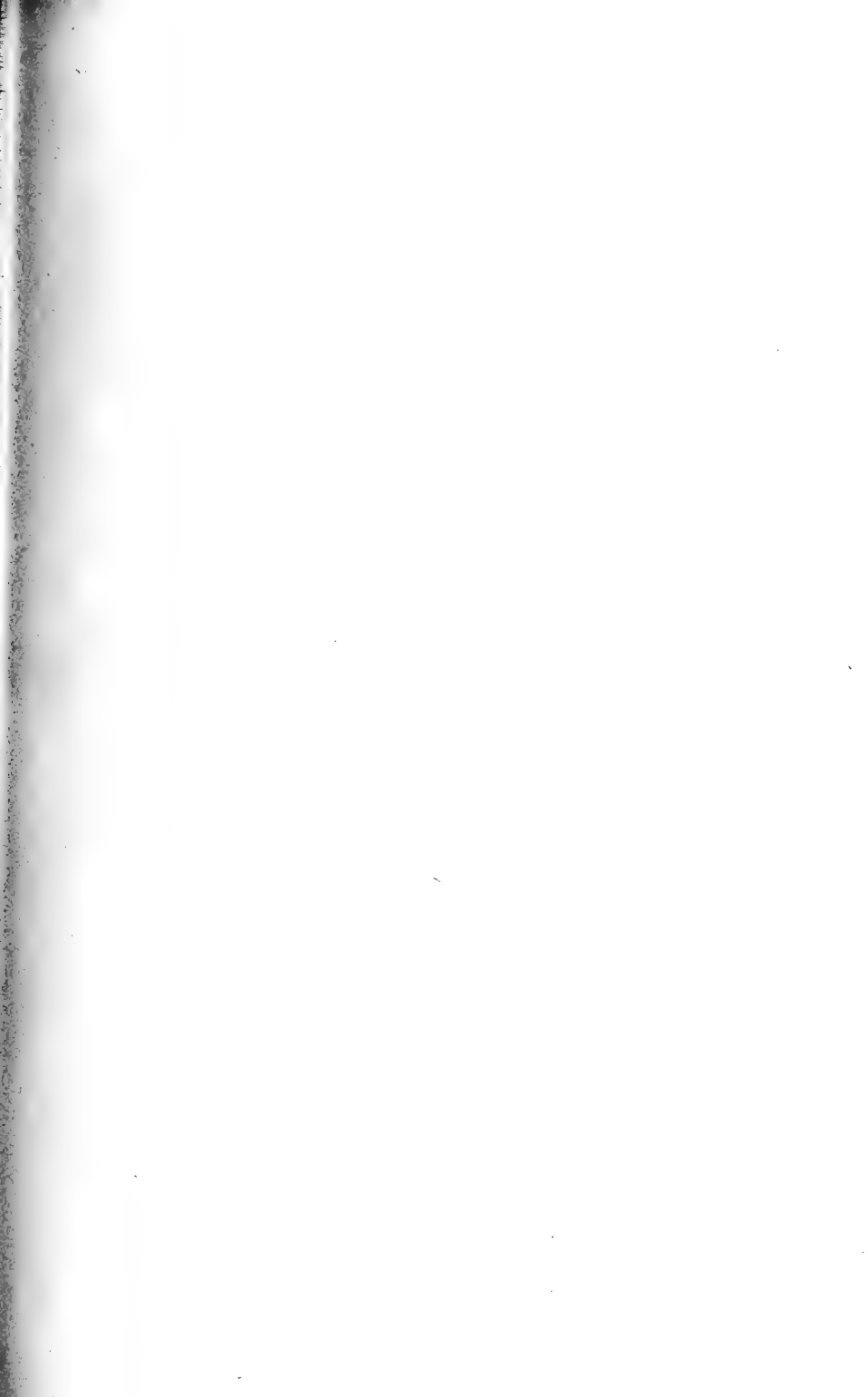


Formant lith.

G. Masson, E. diteur.

Imp. Bécquet, Paris.

1-2. *Zamites Feneonis*, Brongn.



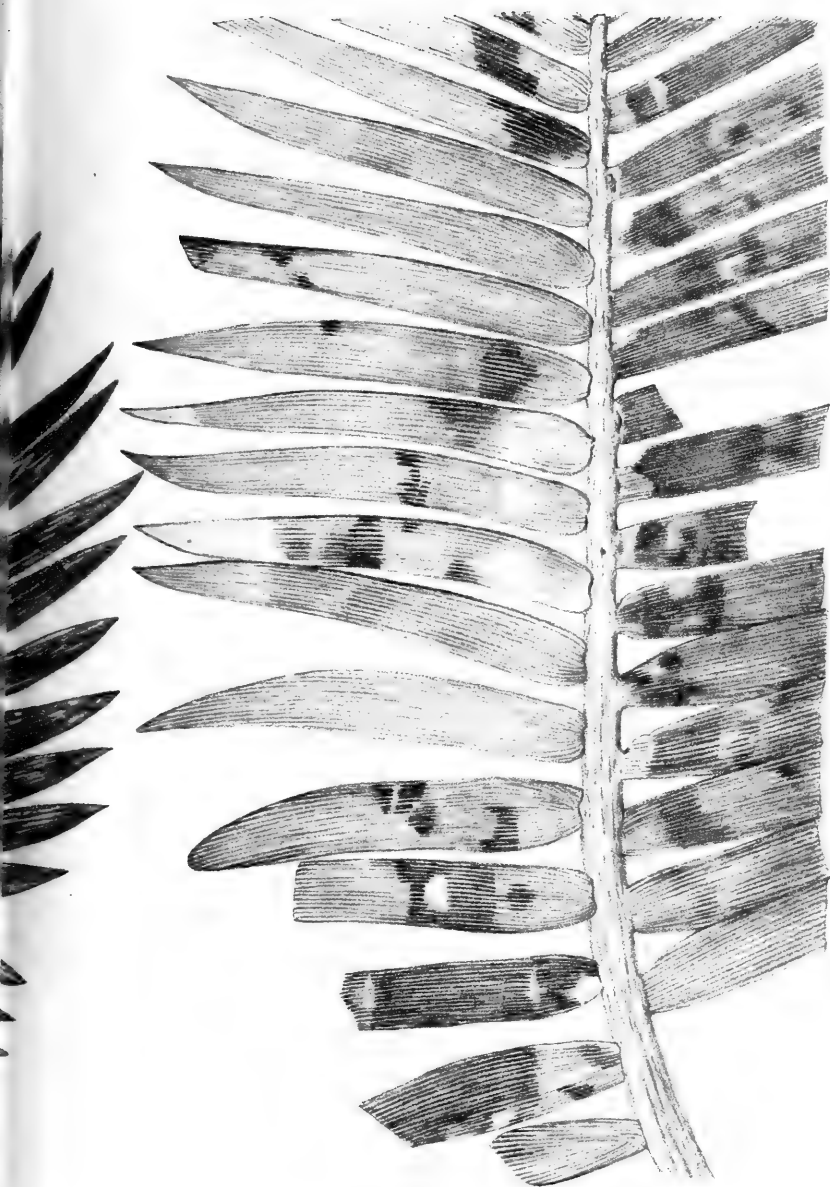
T. Jurassique. Végétaux.

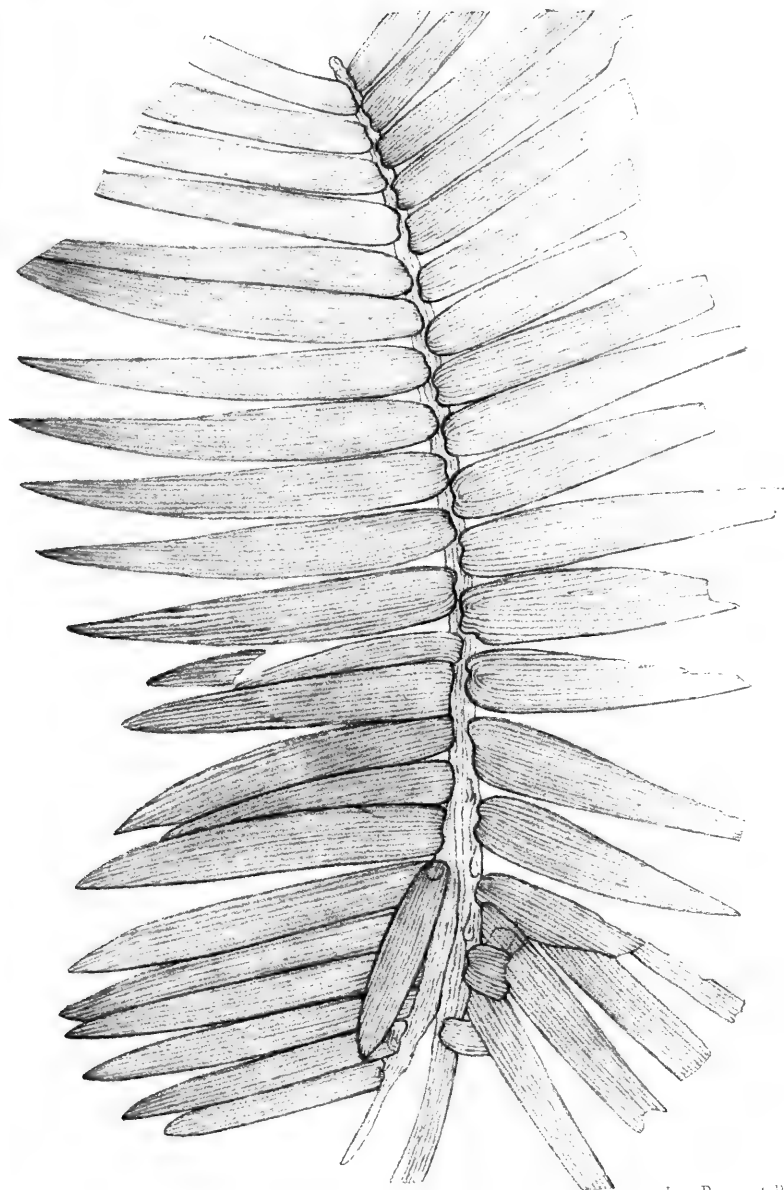
PL. LXXXVIII.



Formant lith.

1-3. Zam



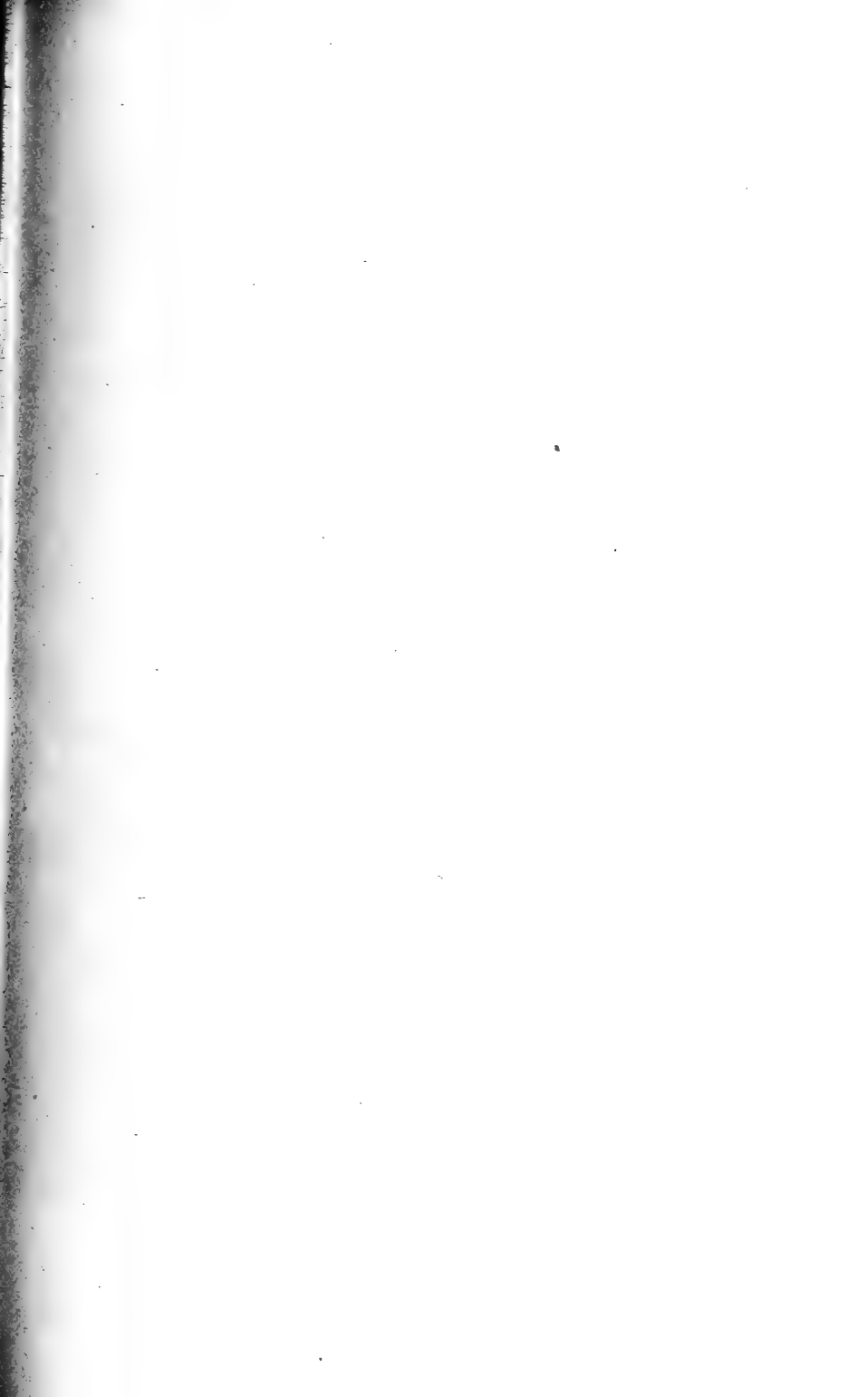


Formant lith.

G. Masson. Editeur.

Imp. Becquet, Paris

Zamites Feneonis, Brongn.



T. Jurassique. Végétaux.

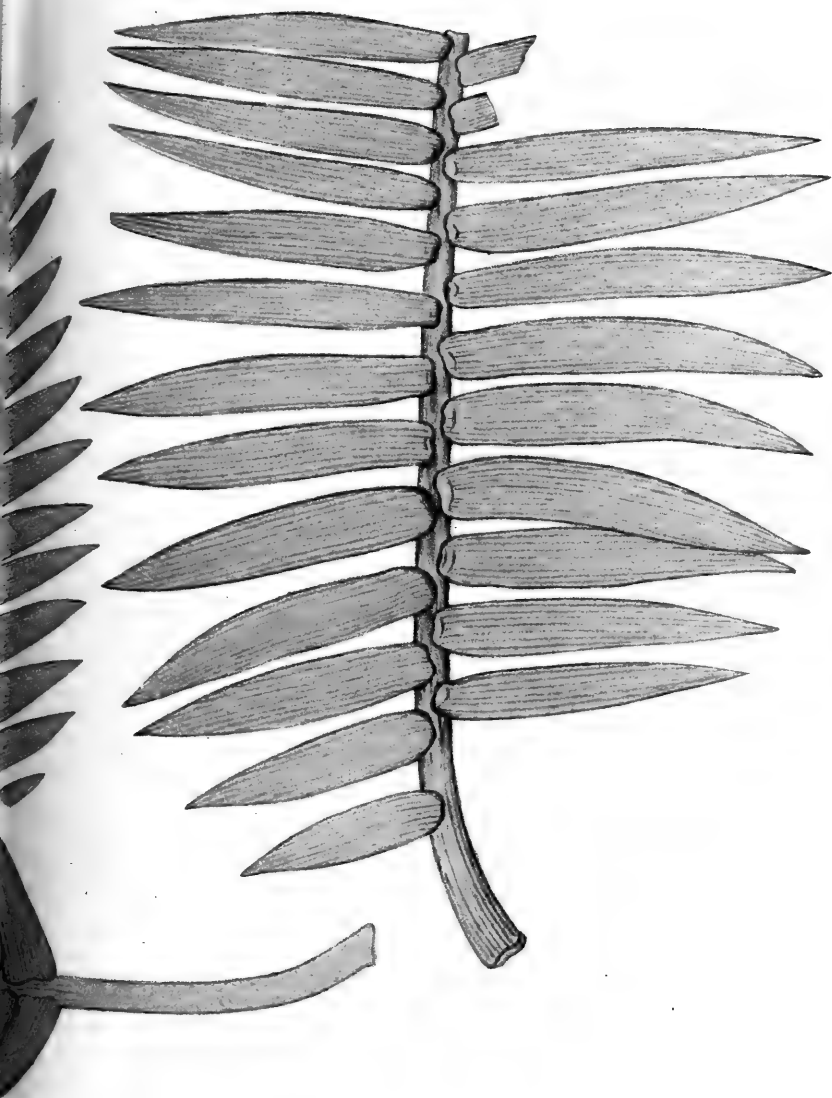
PL. XC.

1



Formant lith.

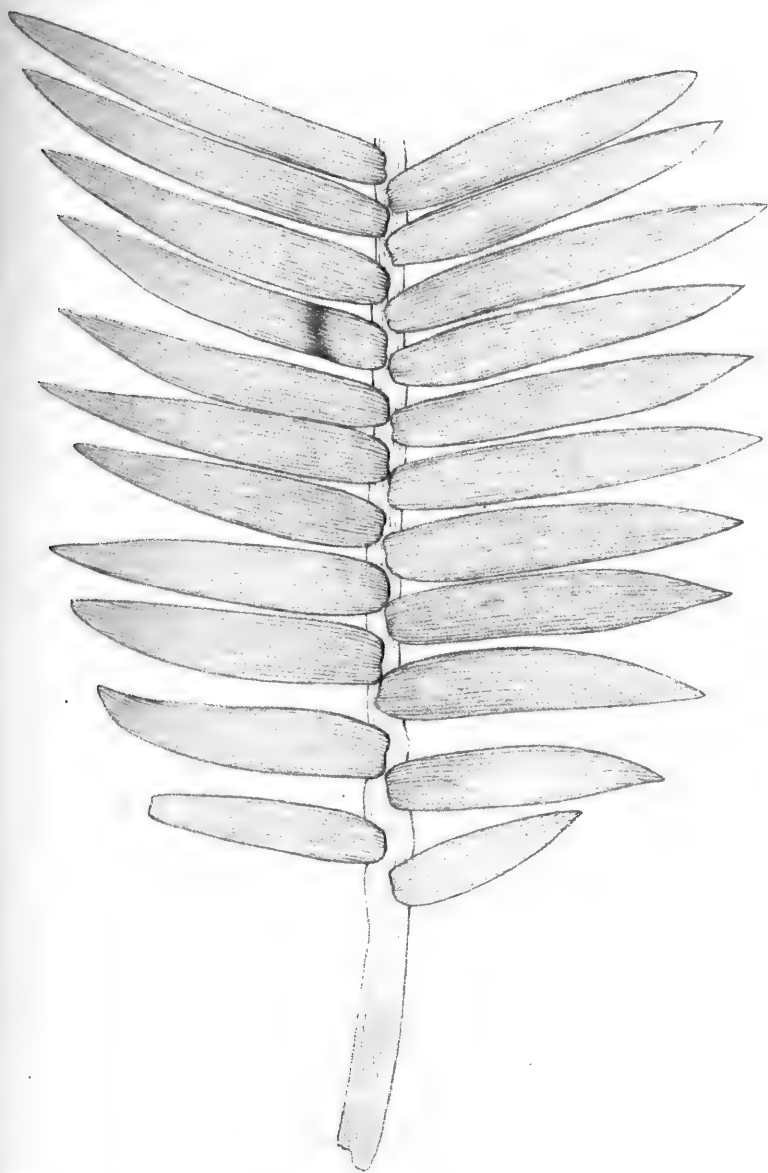
1 - 2. Zamite
3. Z. _____

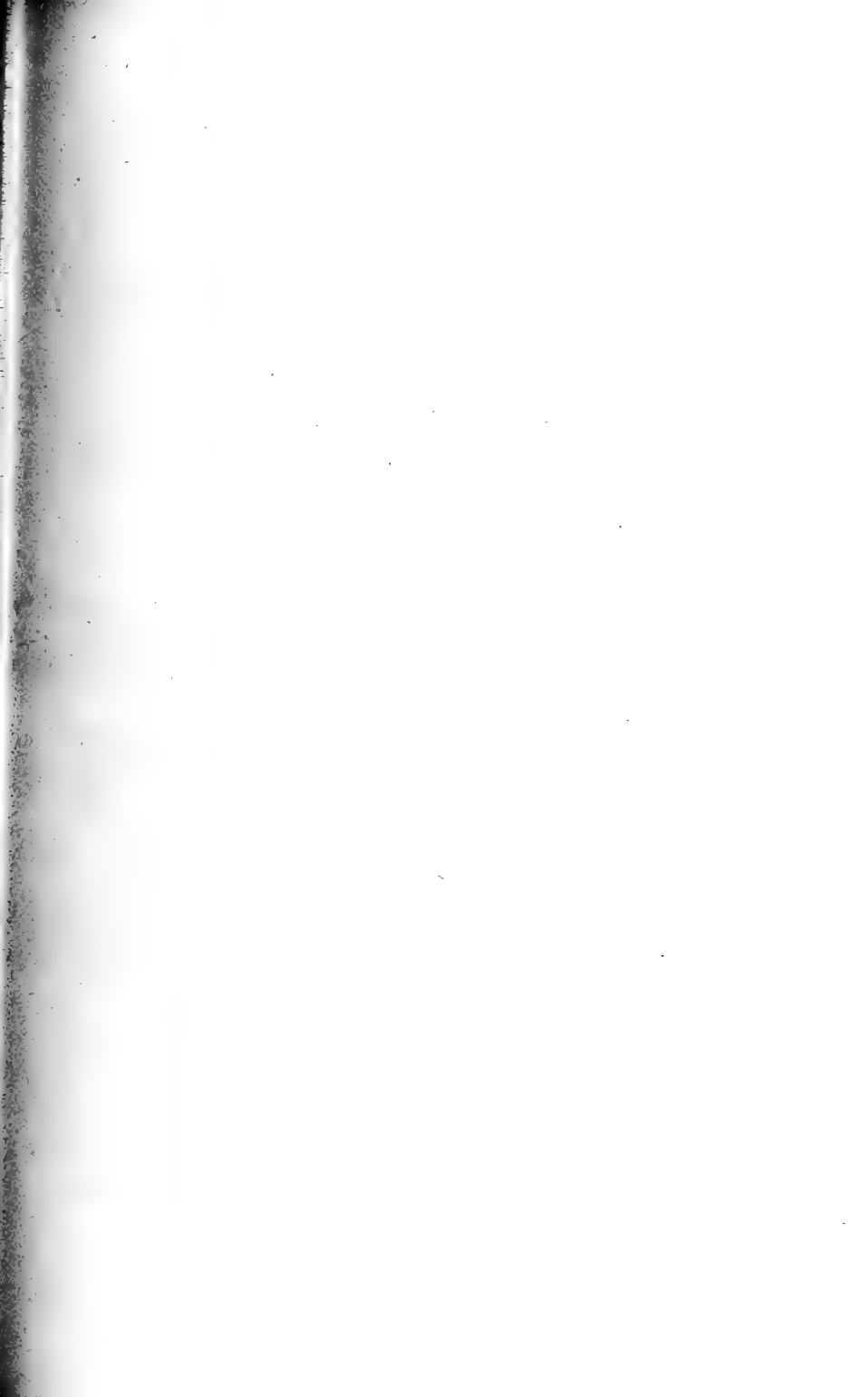


Imp. Becquet, Paris .

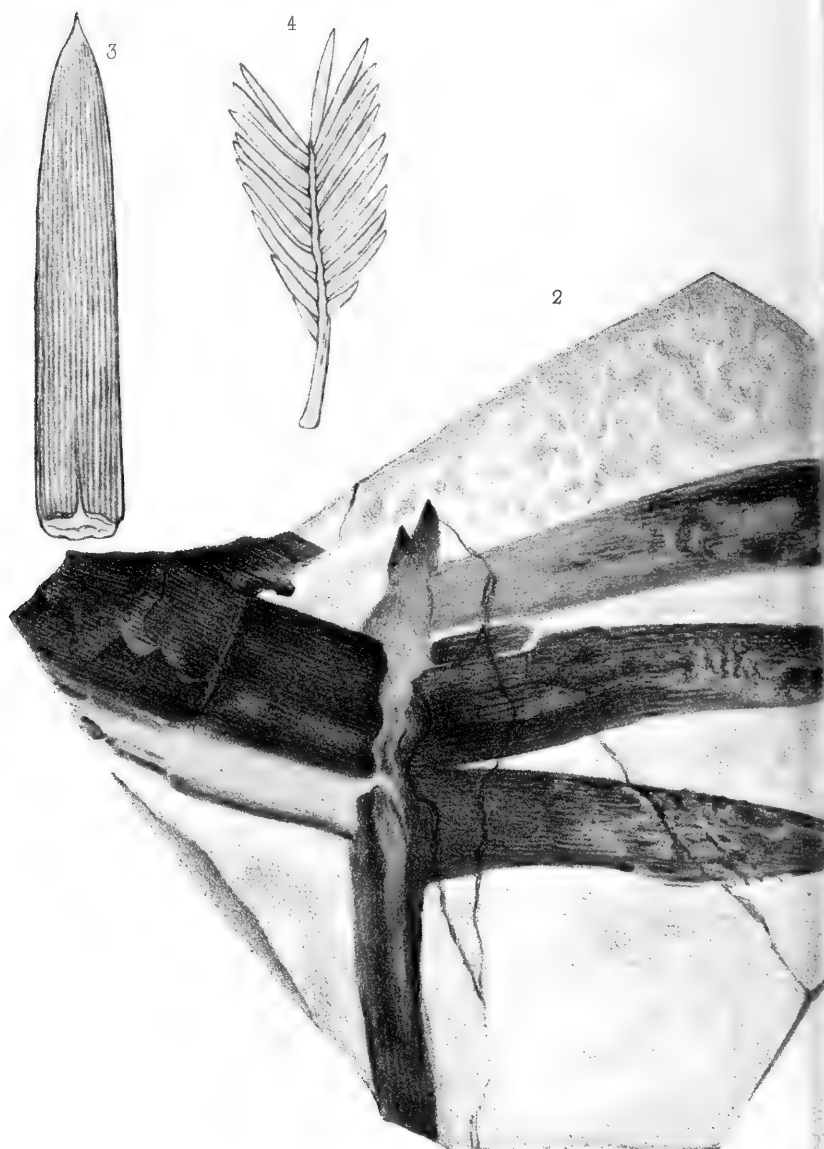
gn.

. articulatus, Sap.



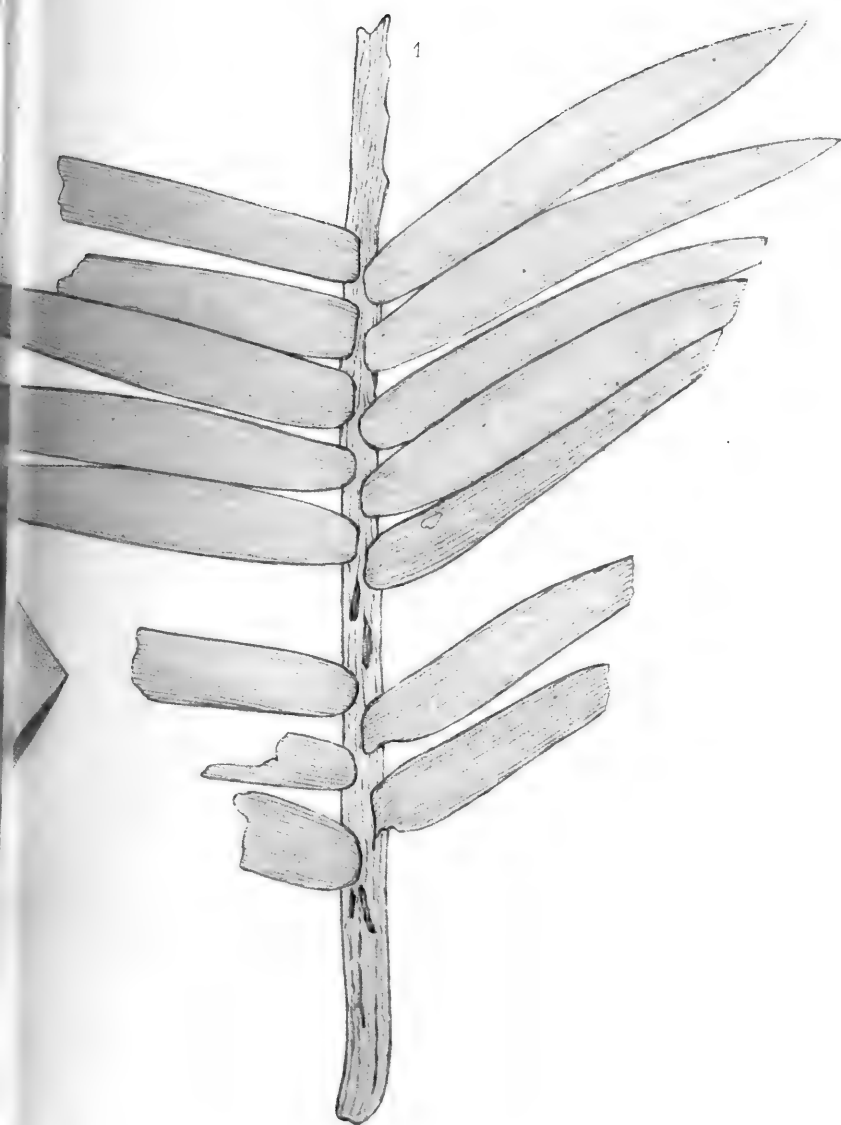


T. Jurassique. Végétaux.
PL. XCII.



Formant lith.

1. *Zamites Fenconis*, Var. *articulatus*
 2. ——— *procerus*, Sap. ———



Imp. Becquet, Paris

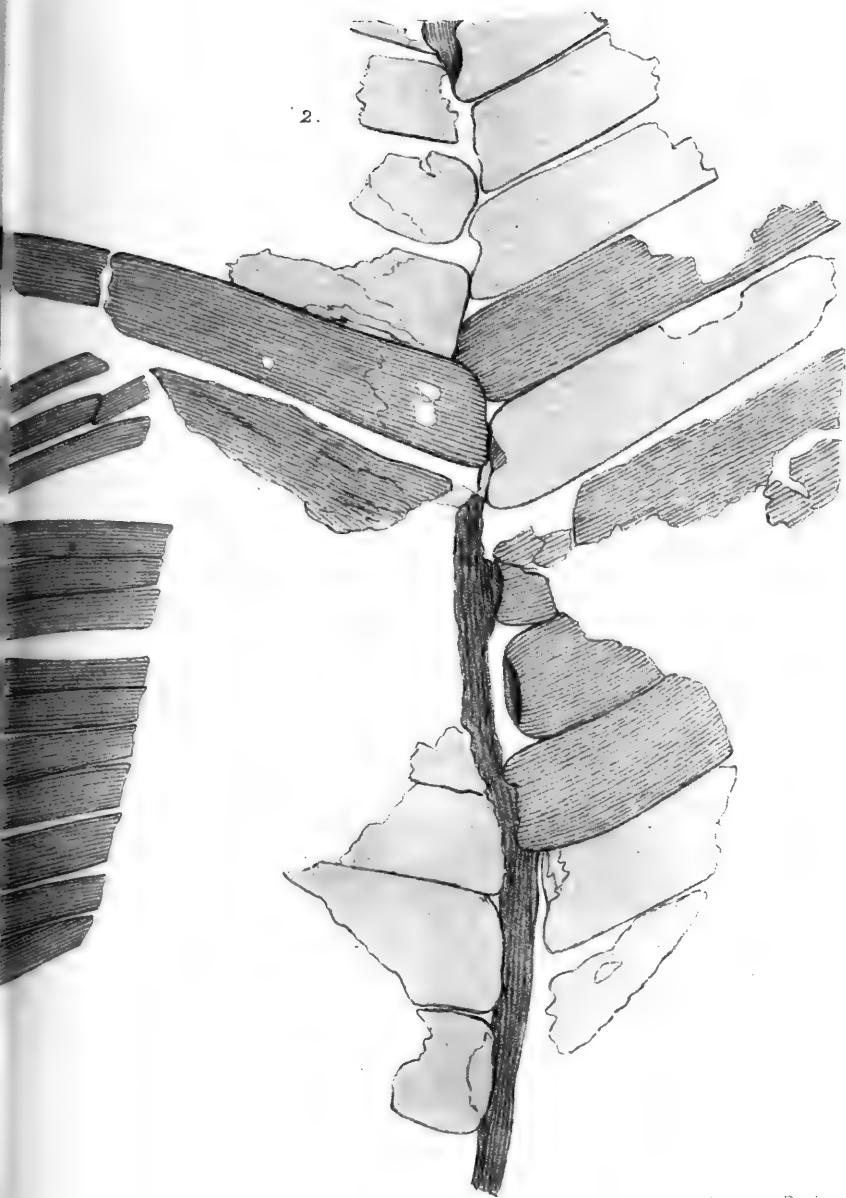
Podozamites. cuspidatus, Sap.
Zamites pumilio, Sap.





Formant lith.

1. *Zamites claravallensis*
 2. ——— *Renevieri*, Hb.



cop. Becquet, Paris

hites fallax, Sap.
—— distractus, Sap.



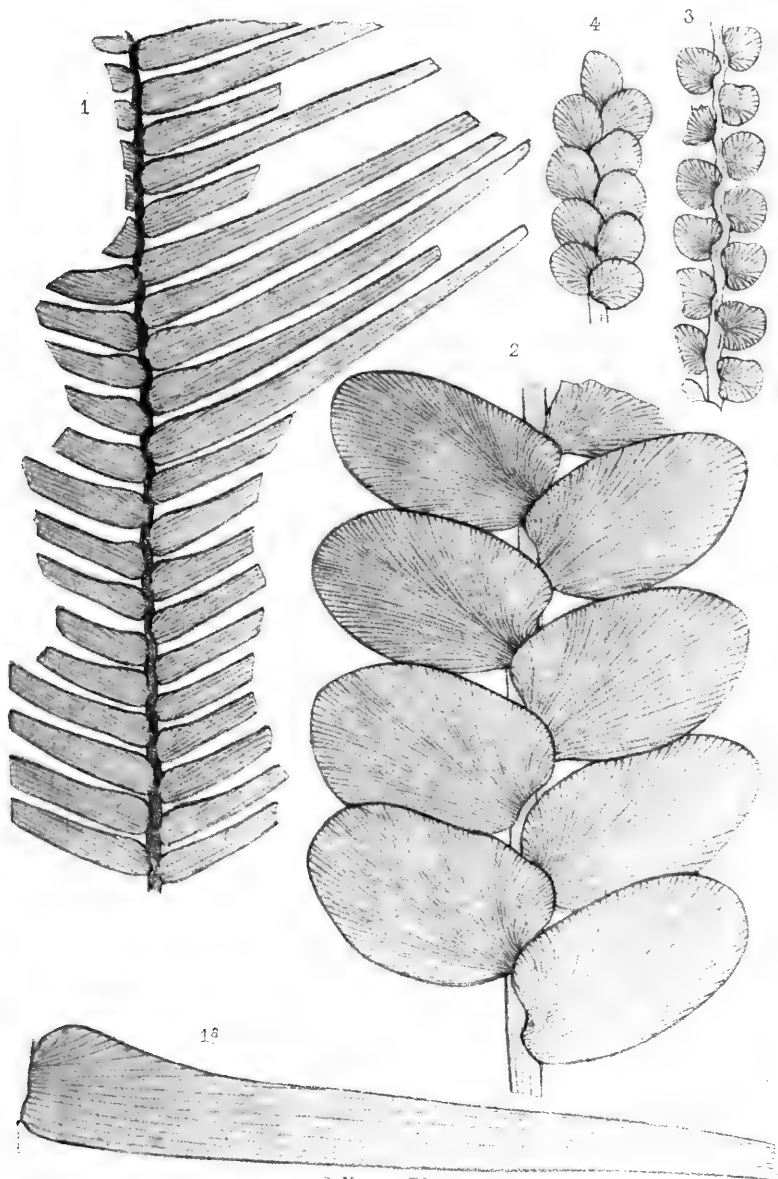
Forment. 1861

G. Masson, Editeur.

Imp. Hocquet, Paris

1-2. *Zamites confusus*, Sap.

3. *Otozamites laevis*, Brongn



Formant, lith.

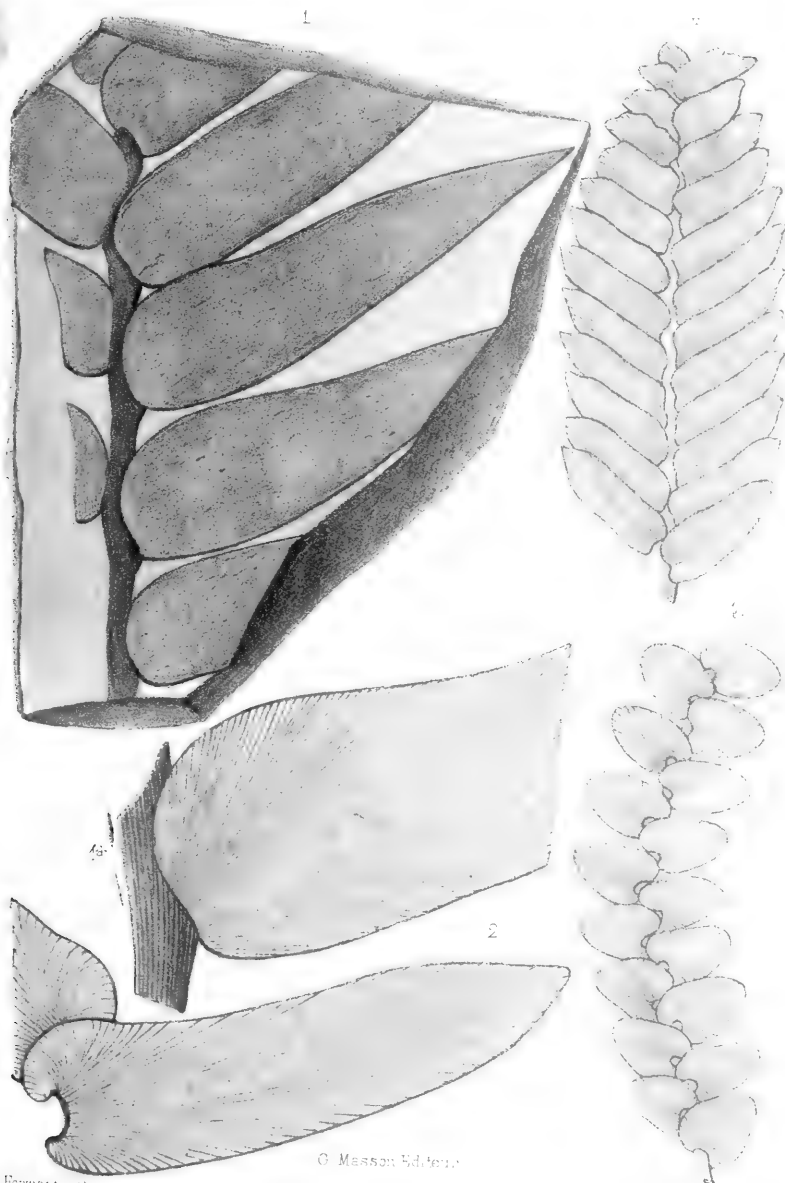
G. Masson, Editeur

Imp. Becquet, Paris

1. *Otozamites Goldiæi*, Brongn.

2. _____ *Beani*, Brongn.

3-4. _____ *Bunburyanus*, Zign.

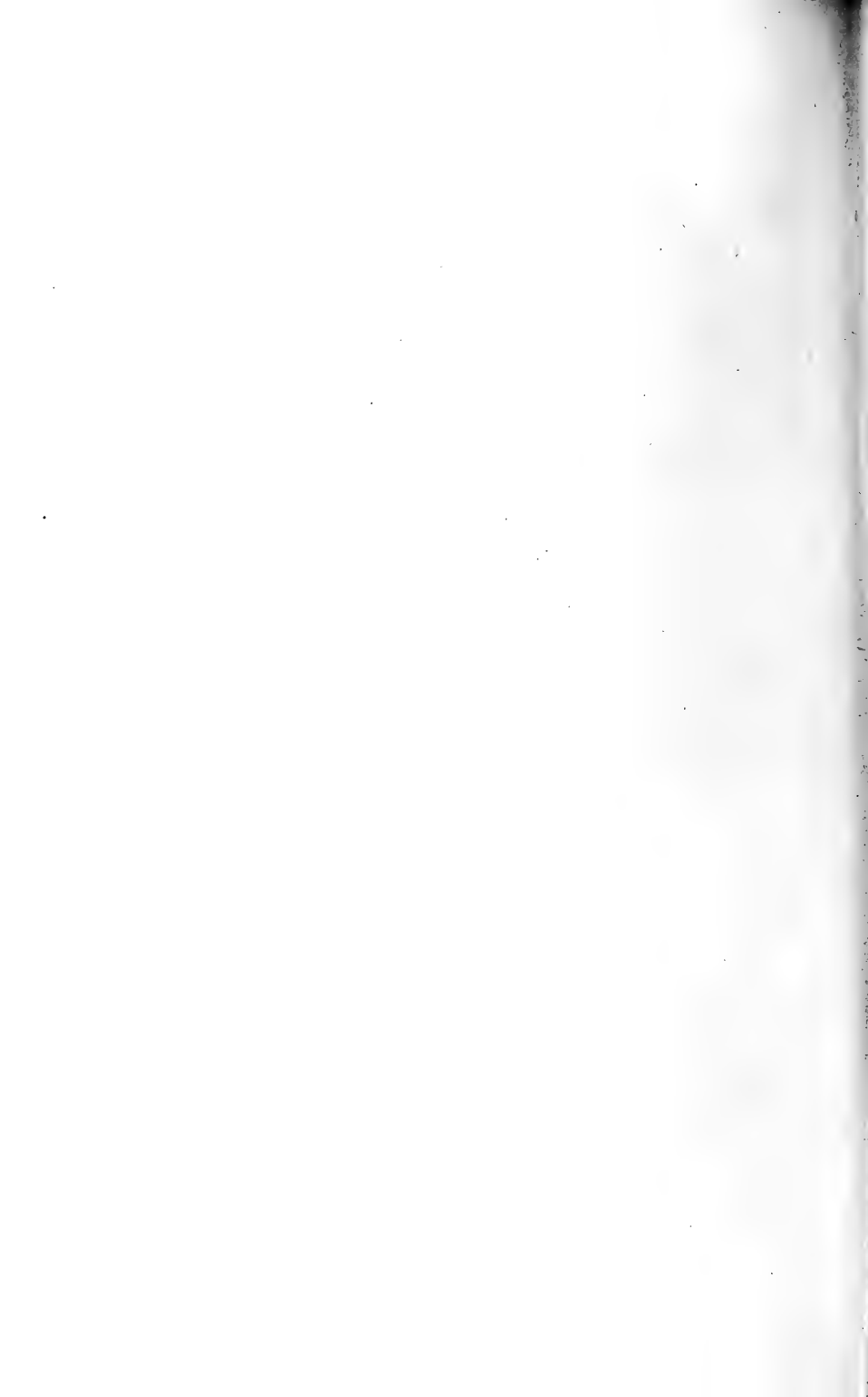


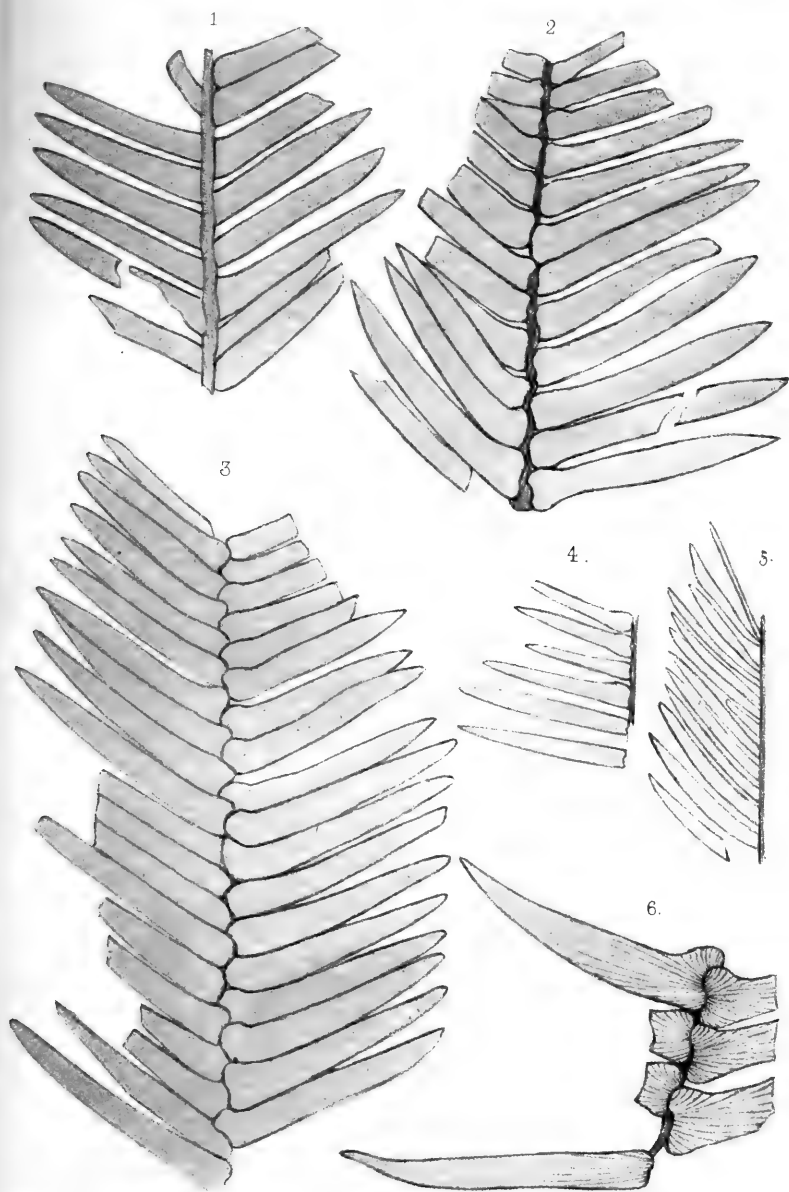
Formet, etc.

G. Masson Editeur

Dep. Bourg. Pina

1. *Otozamites Youngii*. Breugn.
2. ————. *Bucklandi*. Breugn.
3. ————. *Mattellianus*. Zign.
4. ————. *Trevisani*. Zign.



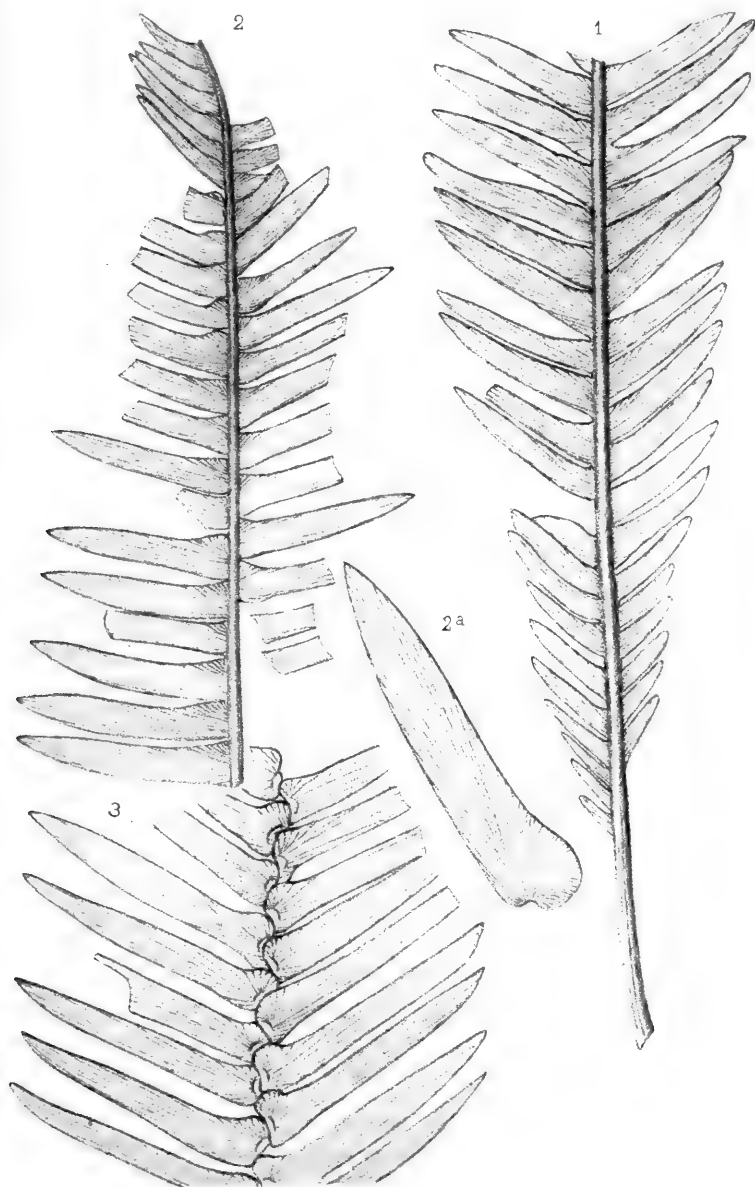


Formant, lith.

C. Masson, Editeur.

Imp. Becquet, Paris.

1-6. *Otozamites latior*, Sap.

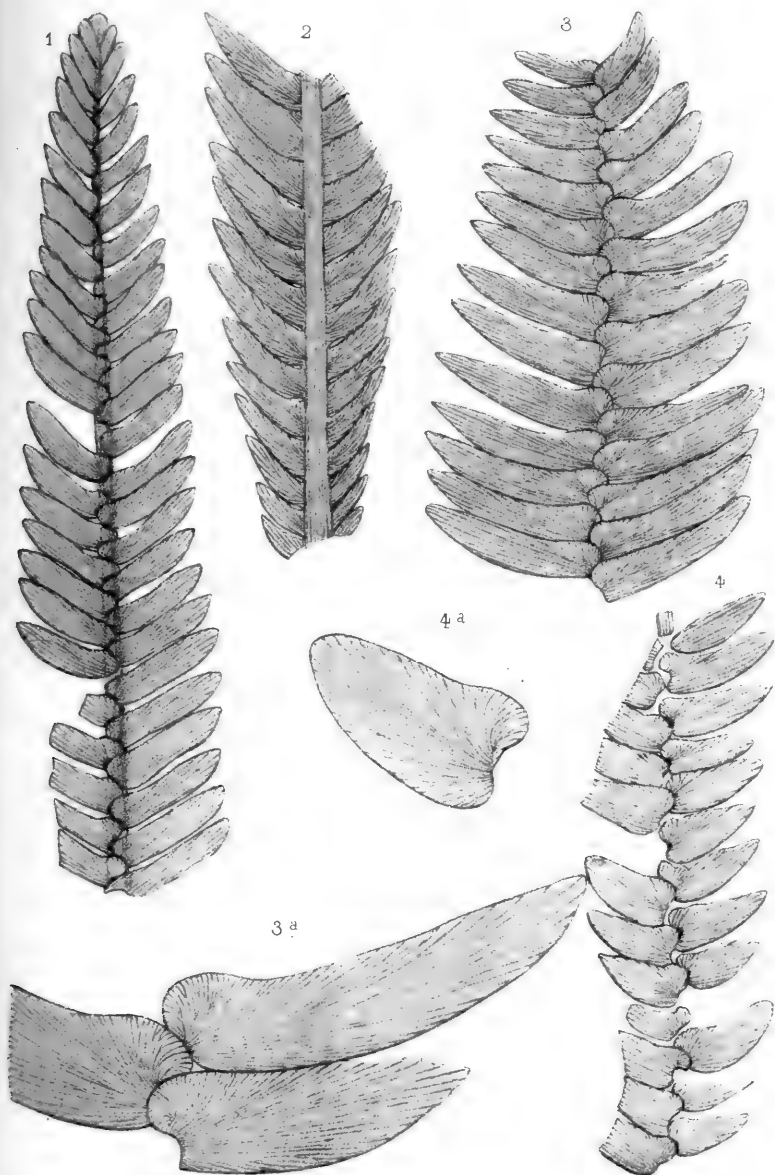


Formant, lith.

G. Masson, Editeur

Imp. Becquet, Paris.

1-3. *Otozamites latior*, Sap.



Formant lith.

M. Masson, cultivateur.

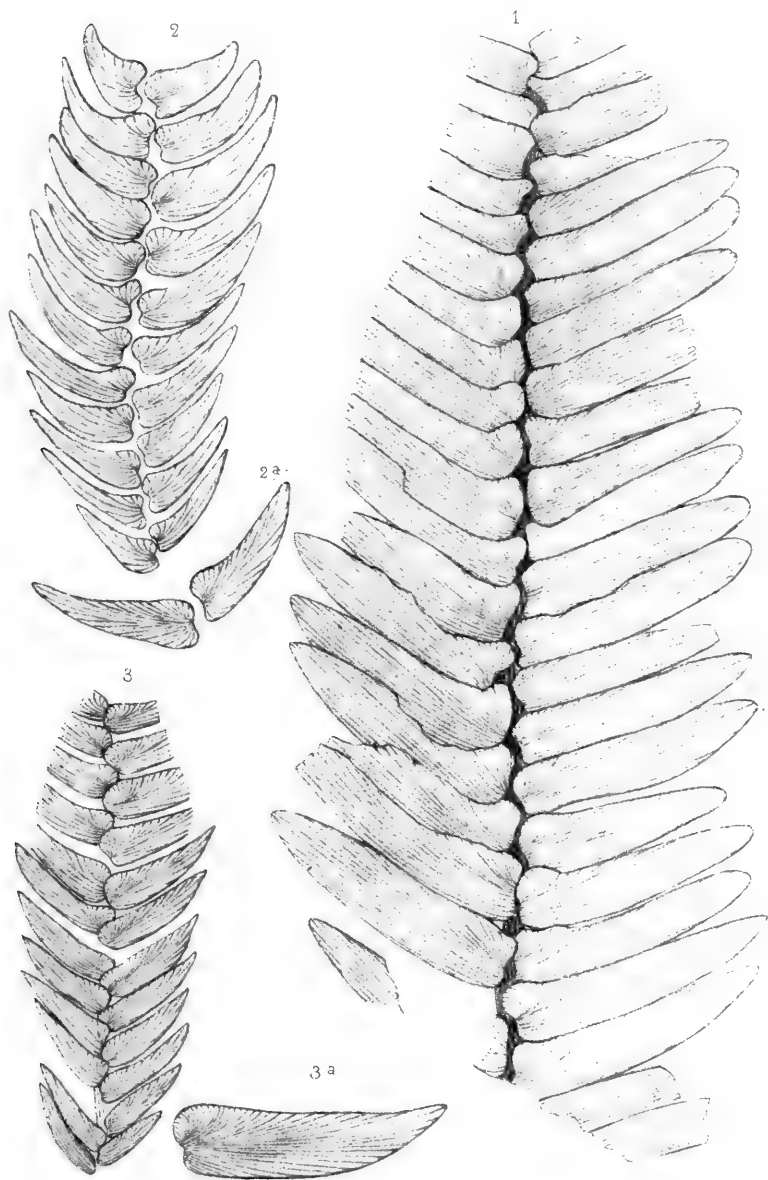
Imp. Hecquet, Paris.

1-3. *Otozamites brevifolius*, F. Br.

4. ————— *Terquemi*, Sap.







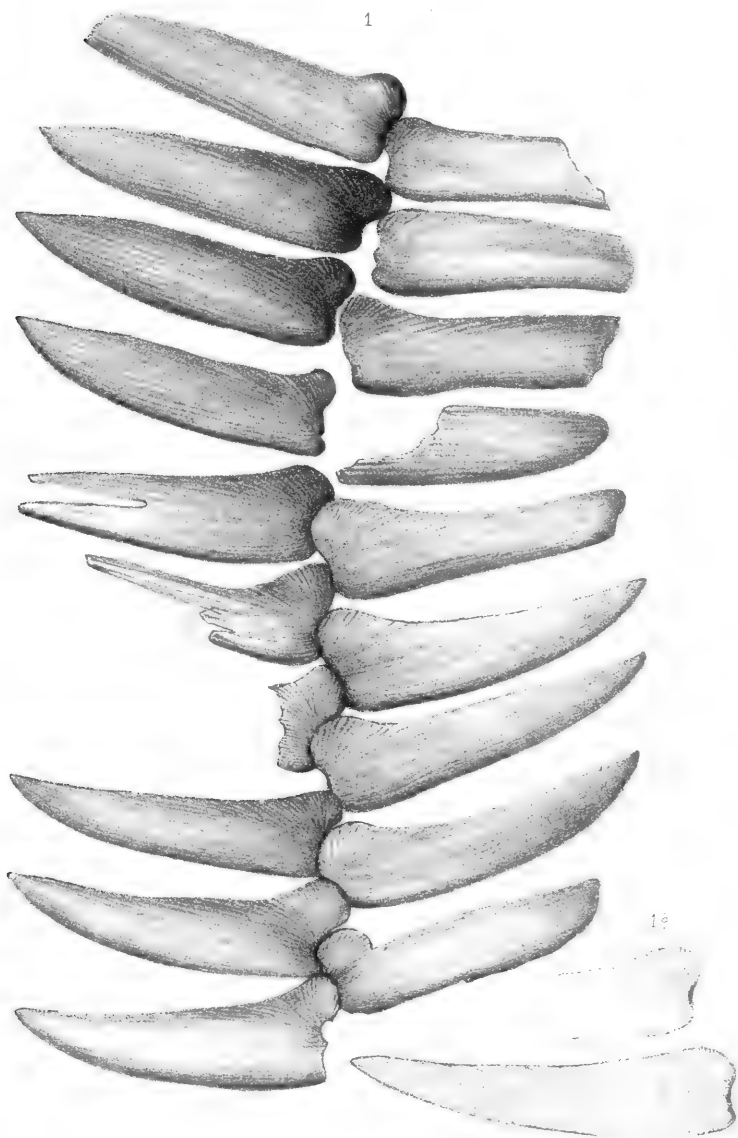
Formant, Ed.

G. Masson, Editeur.

Imp. Becquet, Paris

1. *Otozamites Hennoquei*, Pom.

2-3. _____ *recurrens*, Sap.

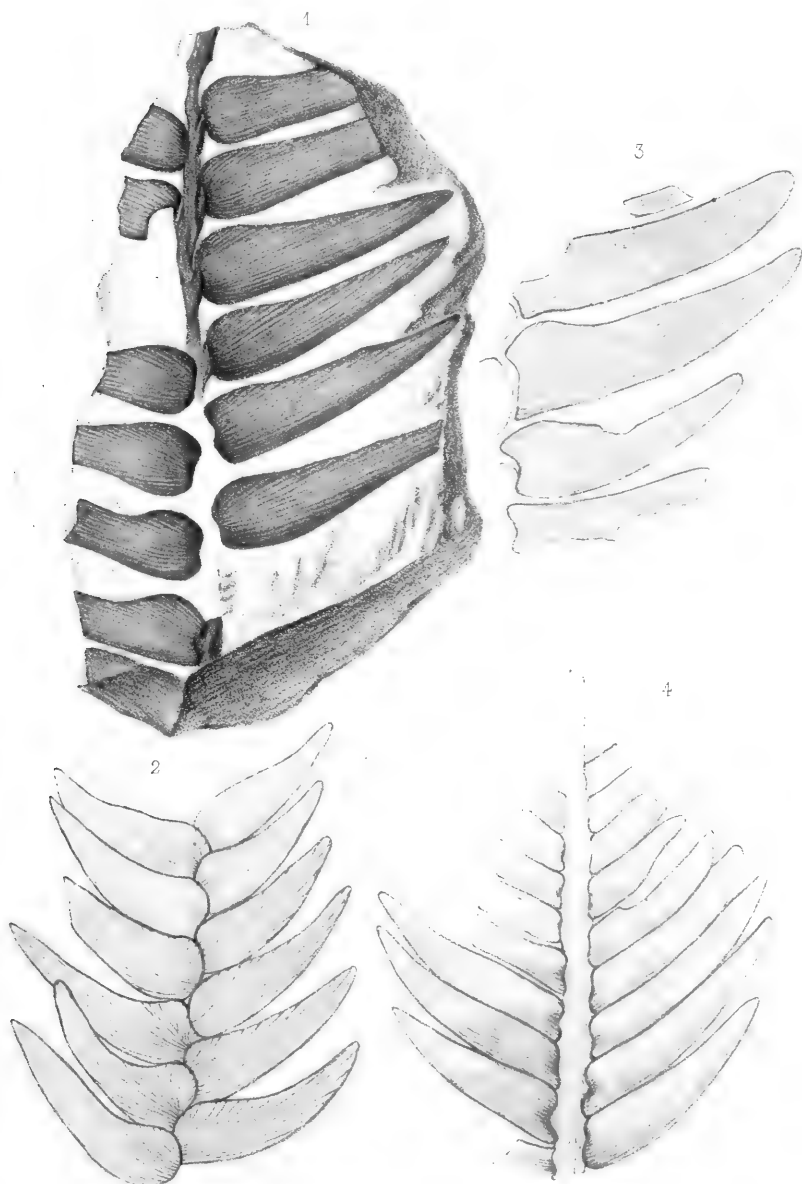


Formant lith.

G. Masson, Editeur.

Imp. Becquet, Paris

1. *Otozamites major*, Schimp.

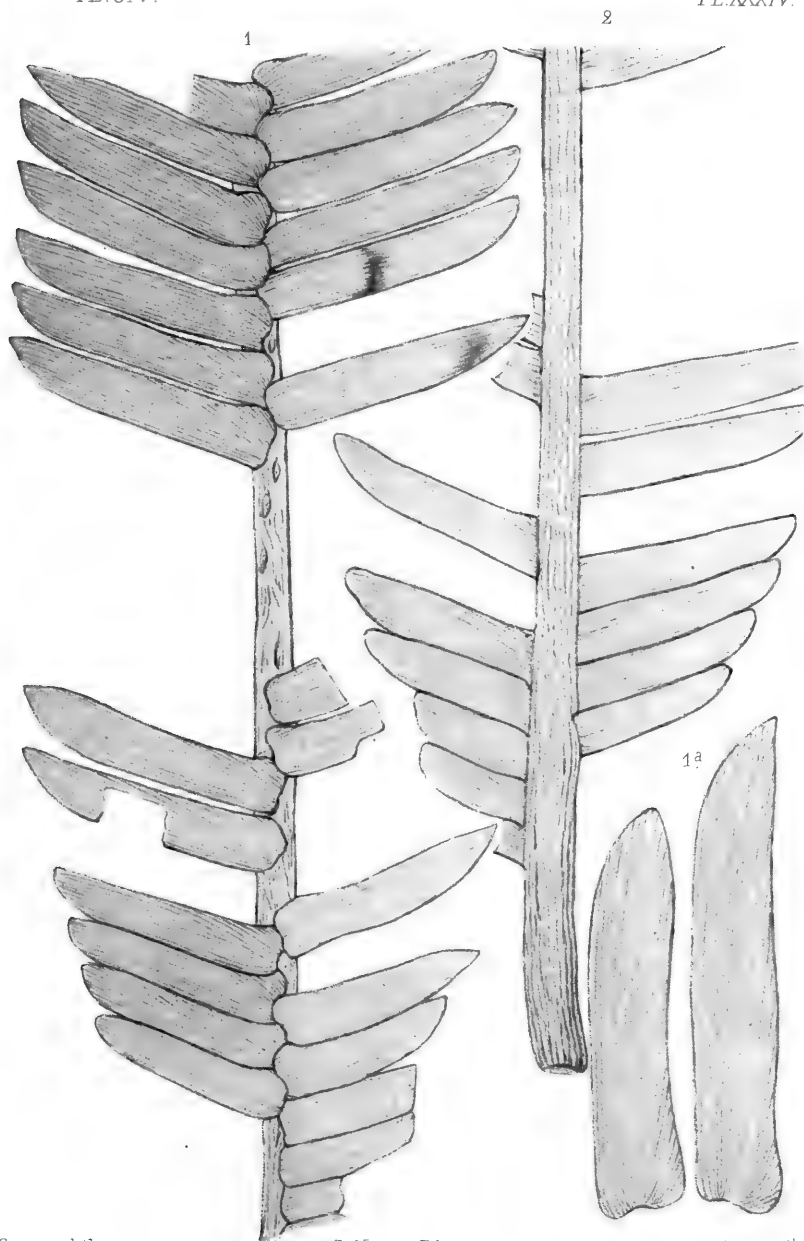


Formant, lith.

J. Masson, graveur.

Imp. Becquet Paris

1. *Otozamites disjunctus*, Sap.
2-3. ————— *graphicus*, Schimp.
4. *Brongniartii*, Schimp.

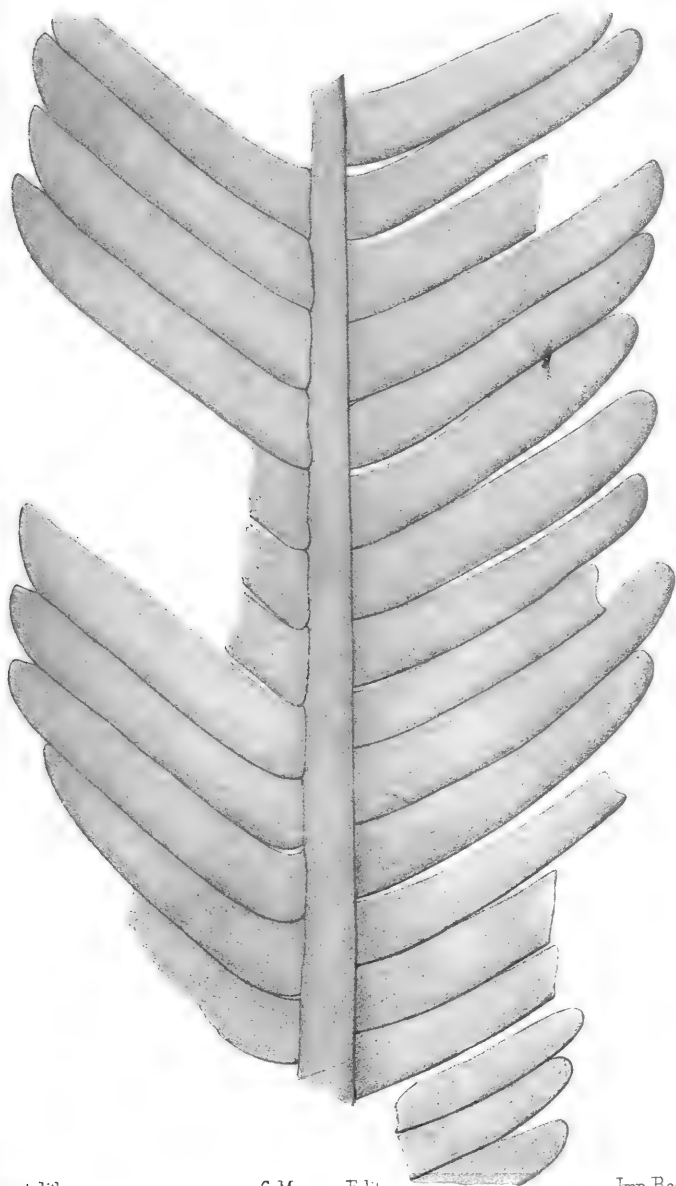


Formant, lith.

G. Masson, Editeur.

imp. Lecquet, Paris

1-2. *Otozamites pterophylloides*, Brongn.

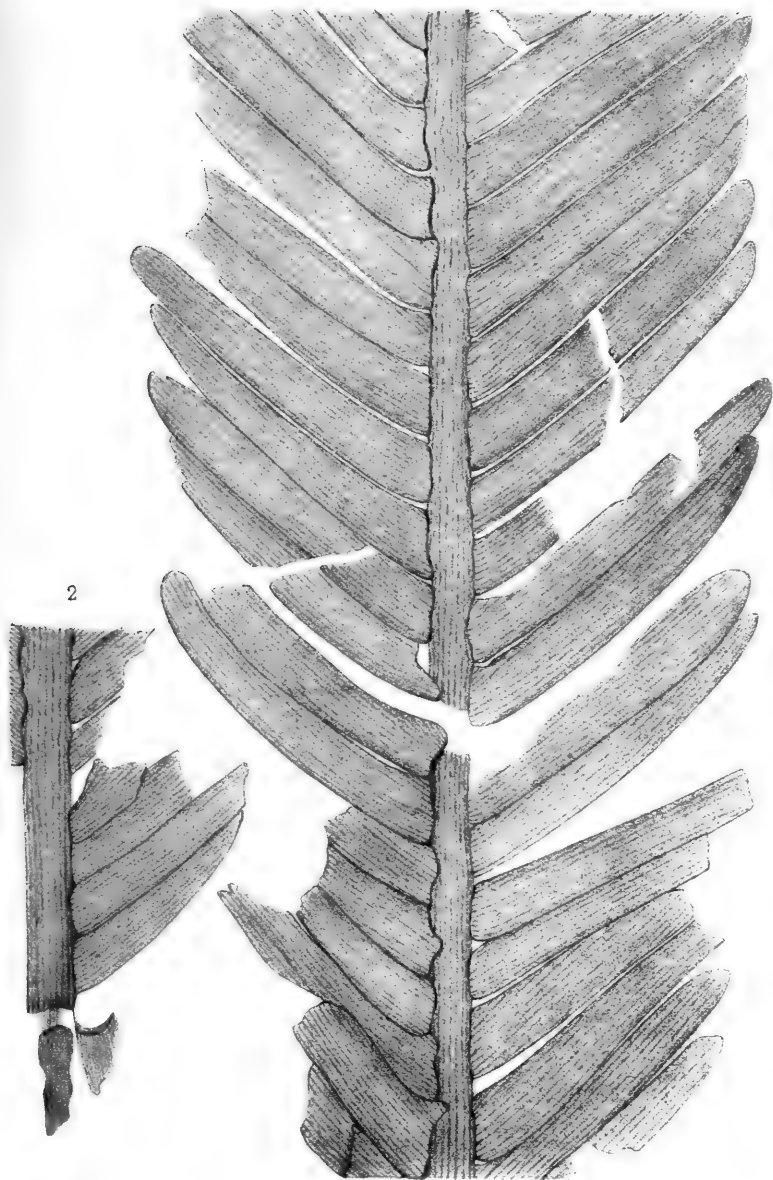


Formant lith.

G. Masson, Editeur.

Imp. Becquet, Paris.

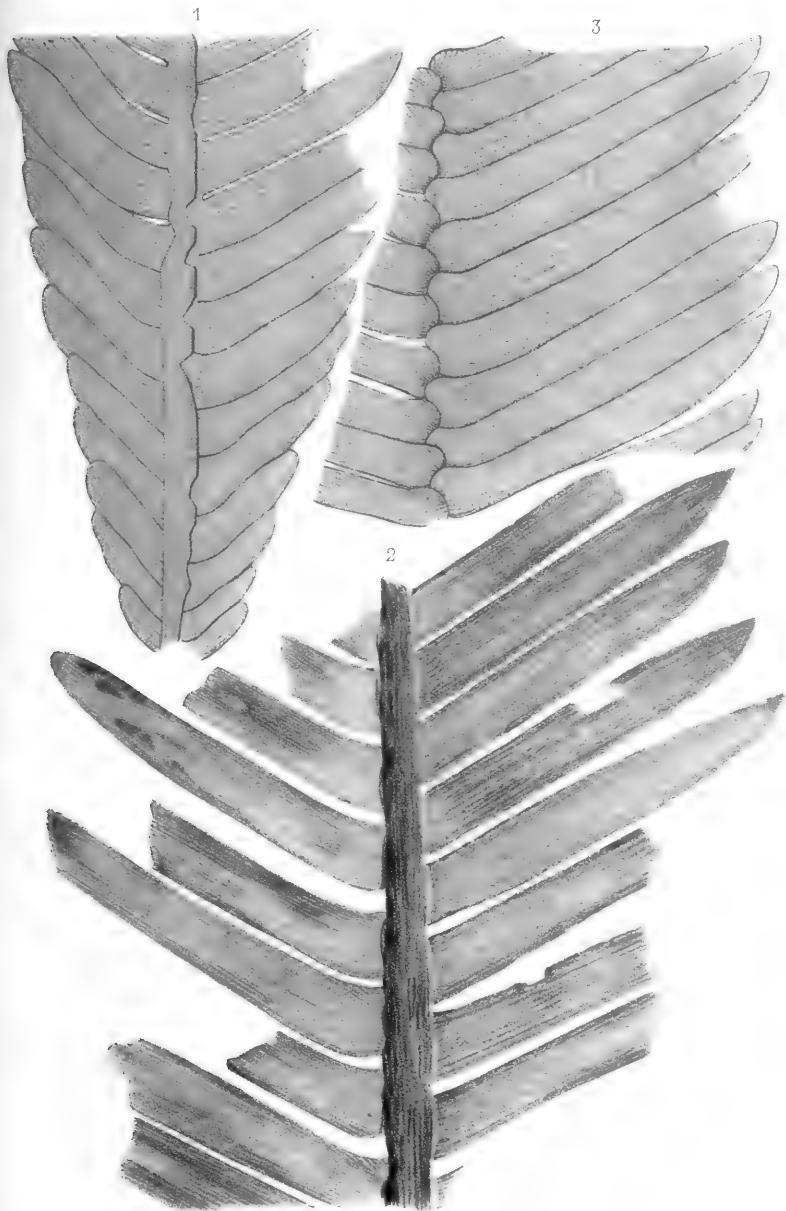
Otozamites pterophylloides, Brongn.



Formant lith.

G. Masson, Editeur.

Imp. Becquet, Paris.



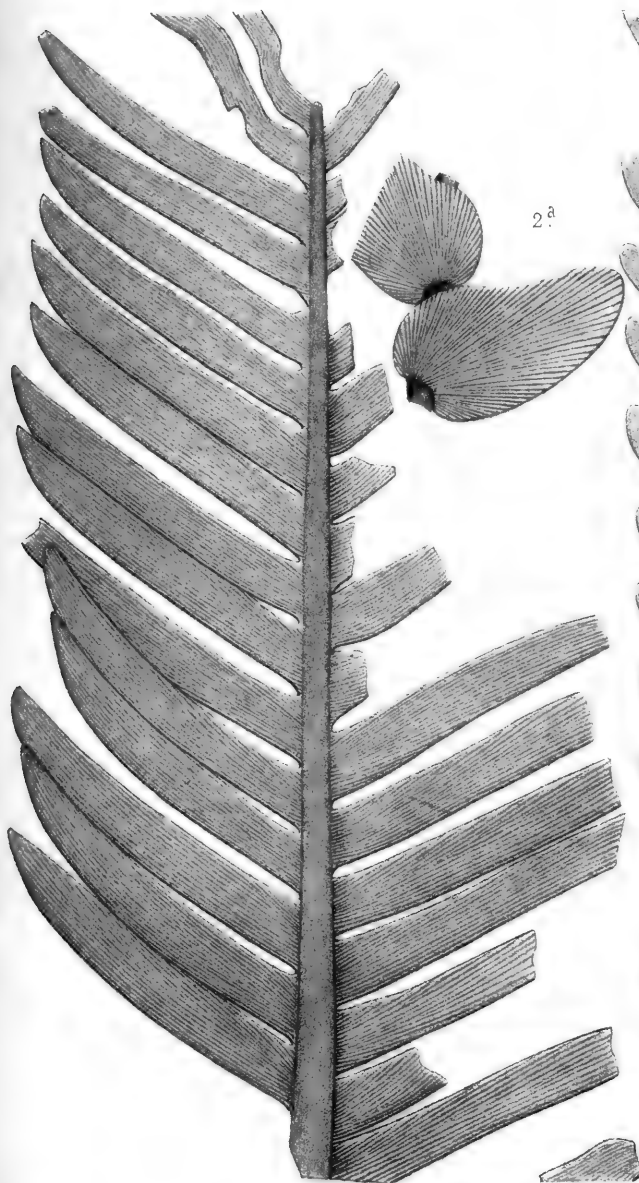
Formant lith.

G. Masson, Editeur.

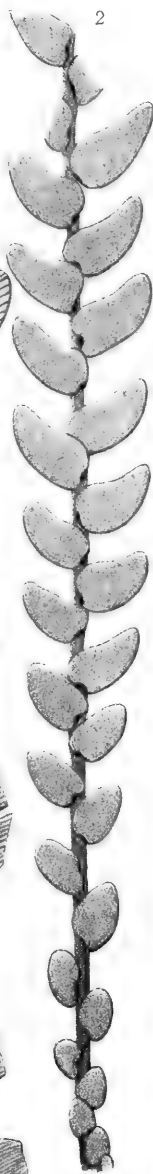
Imp. Becquet, Paris.

1-3. *Otozamites pterophylloides*, Brongn.

1



2



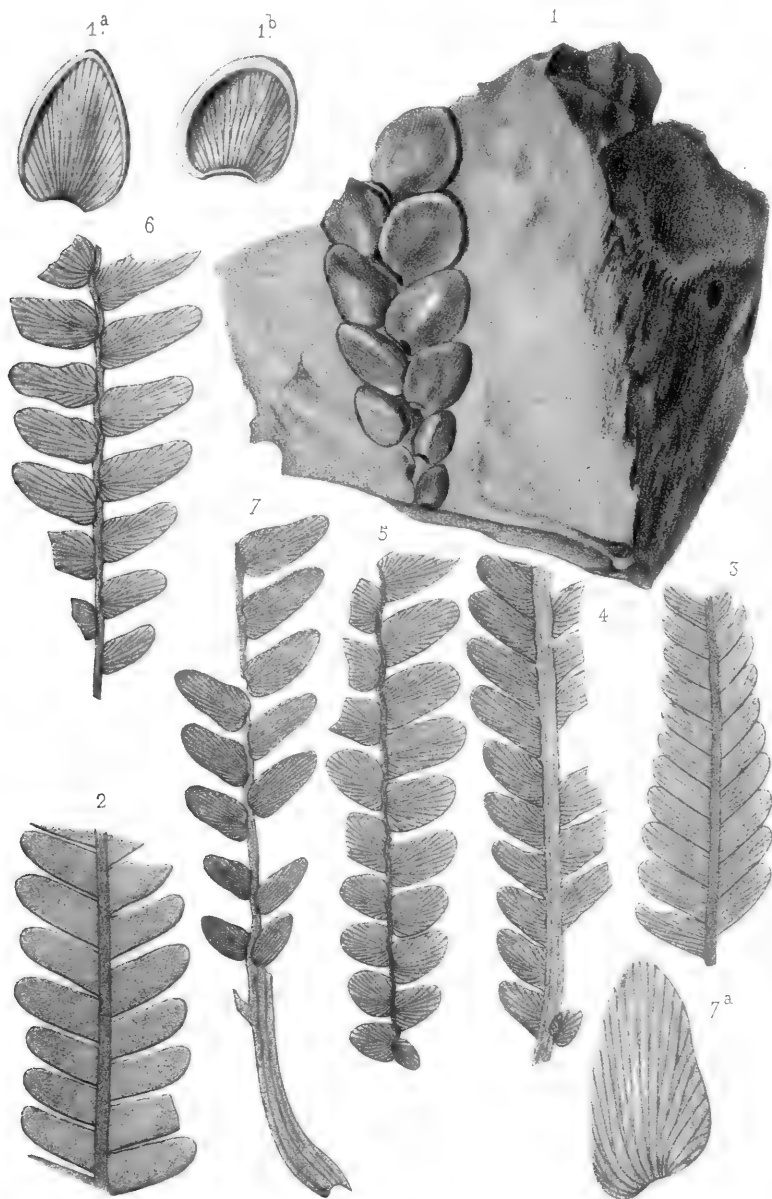
Formant lith.

G. Masson, Editeur.

Imp. Becquet, Paris.

1. *Otozamites pterophylloides*, Brongn.

2. *O. microphyllus*, Brongn.

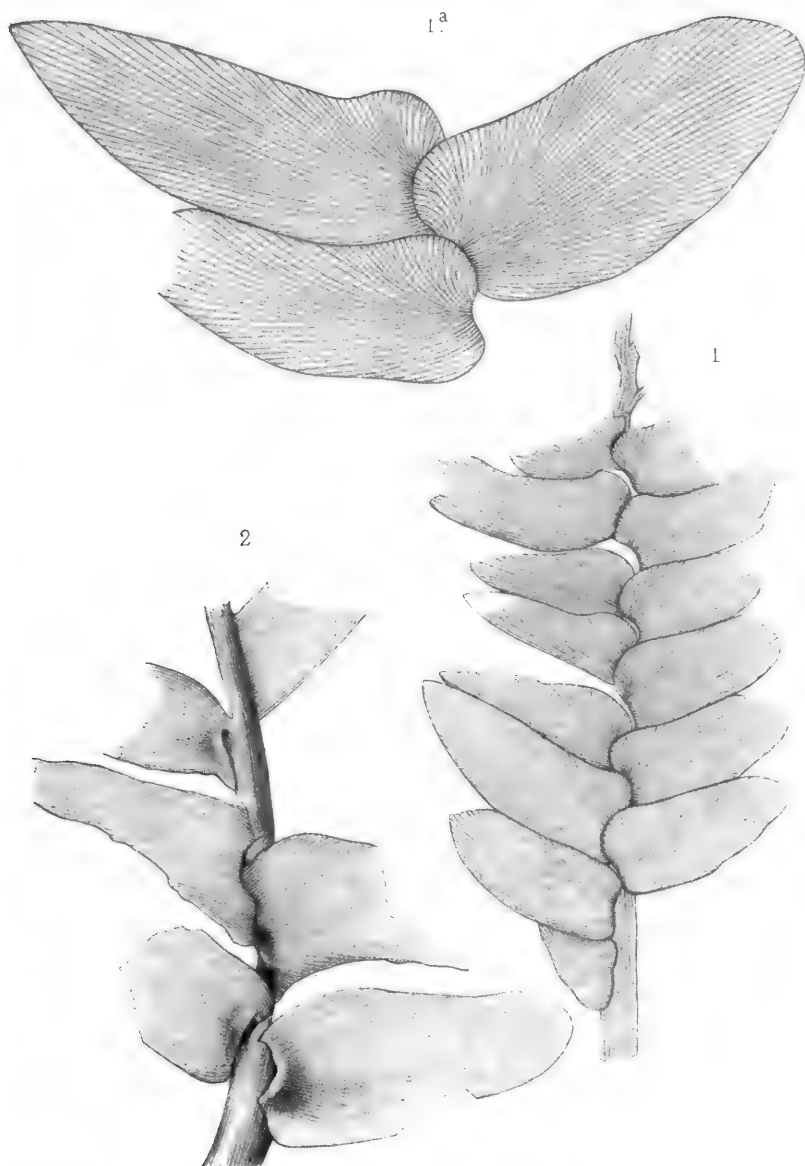


Formant lith.

G. Masson, Editeur.

Imp. Becquet, Paris.

1. *Otozamites marginatus*, Sap.
2 - 7. *O. _____ Reglei*, (Brongn.) Sap.

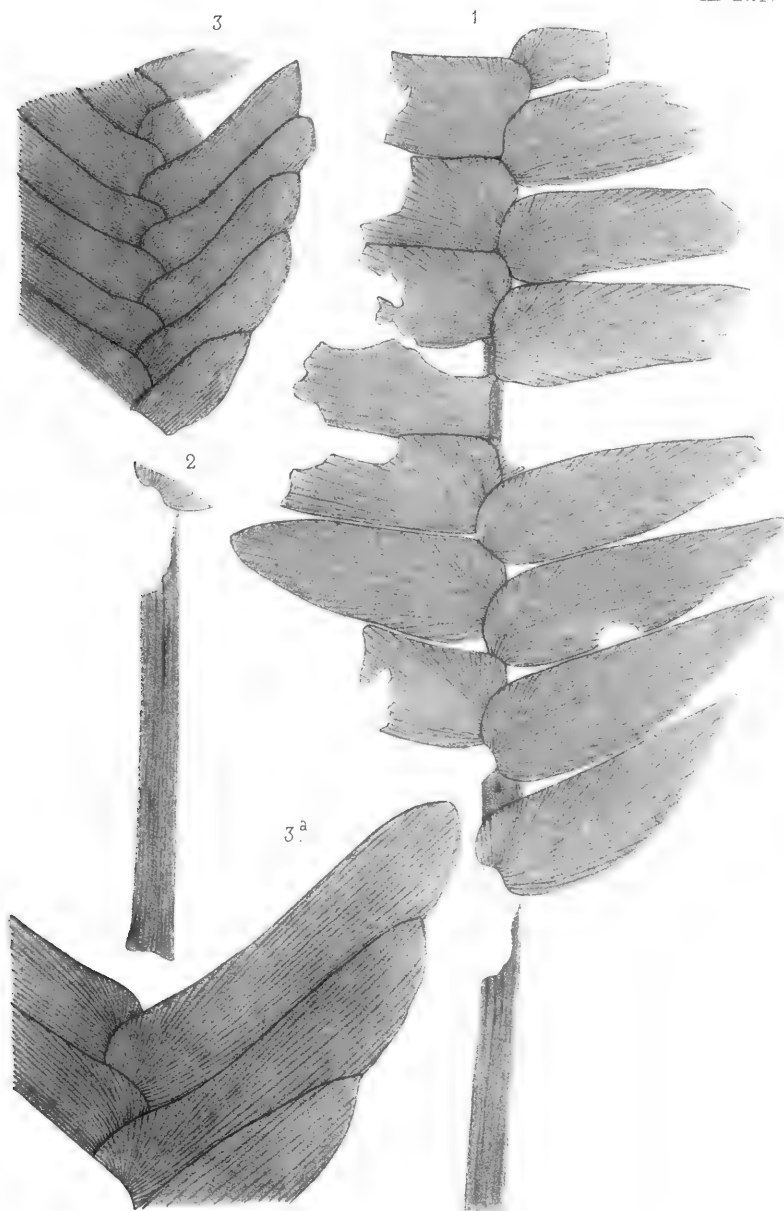


Formant lith.

G. Masson, Editeur.

Imp. Becquet, Paris.

1. *Otozamites decorus*, Sap.
2. *O. _____ lagotis*, Brongn.



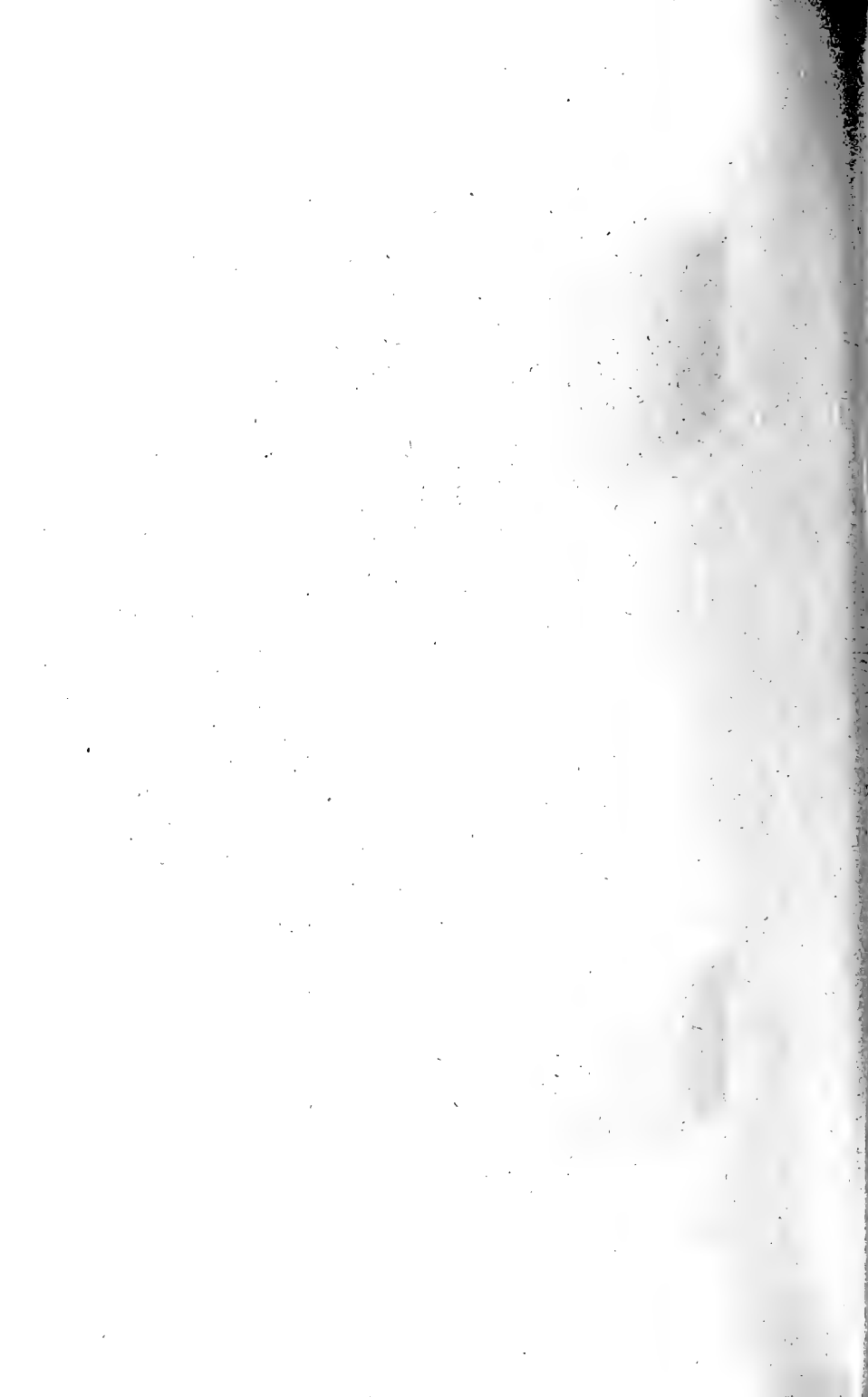
Formant lith.

G. Masson, Editeur.

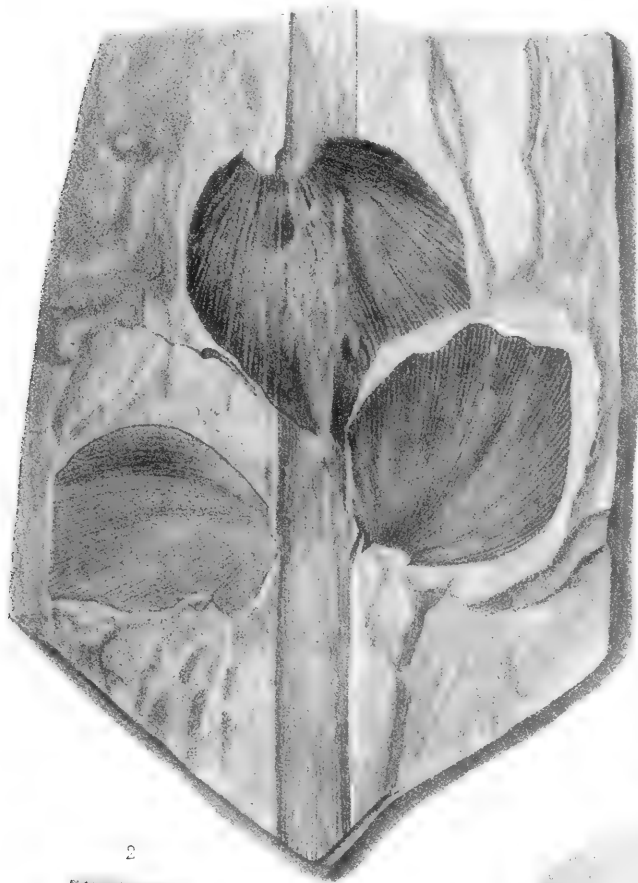
Imp. Becquet, Paris.

1-2. *Otozamites decorus*, Sap.

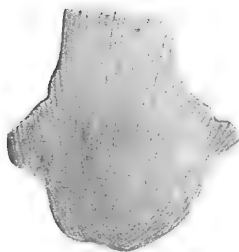
3. *O. _____ pterophylloides*, Brongn.



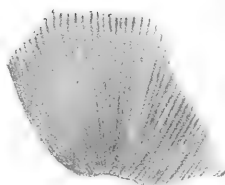
1



2



3



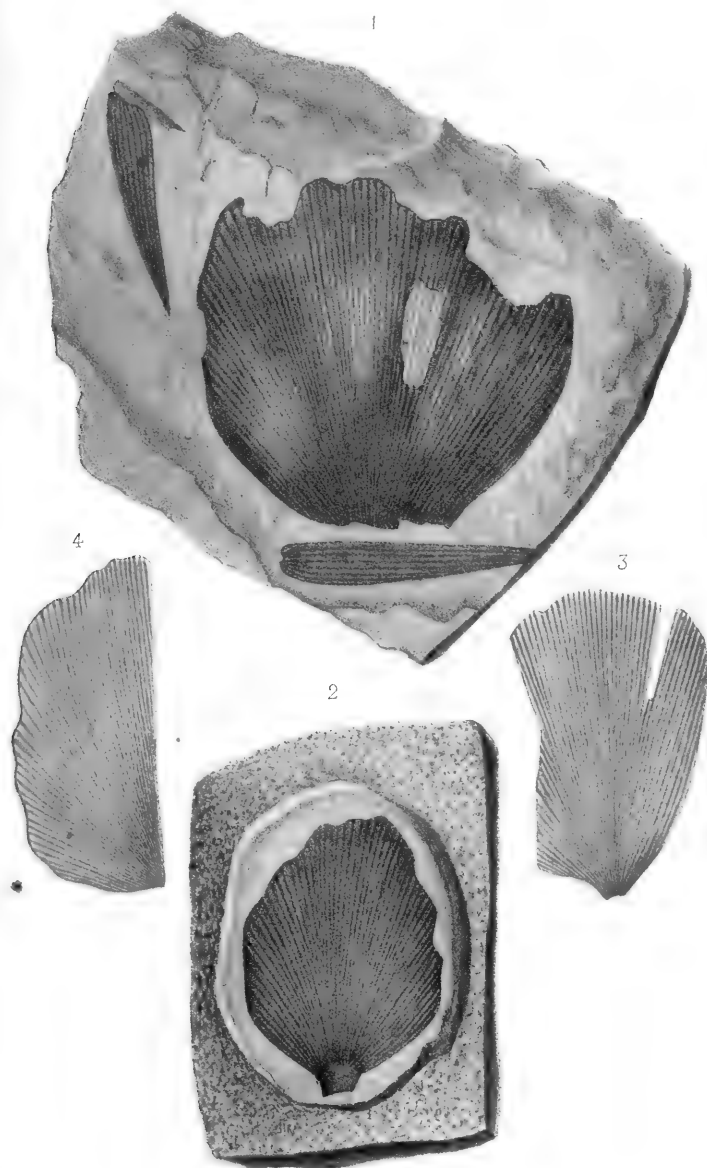
Formant lith.

G. Masson, Editeur.

Imp. Becquet, Paris

1. *Sphenozamites latifolius*. (Brongn.) Sap.

2-4. *S.* _____ *Brongniartii*, Sap.

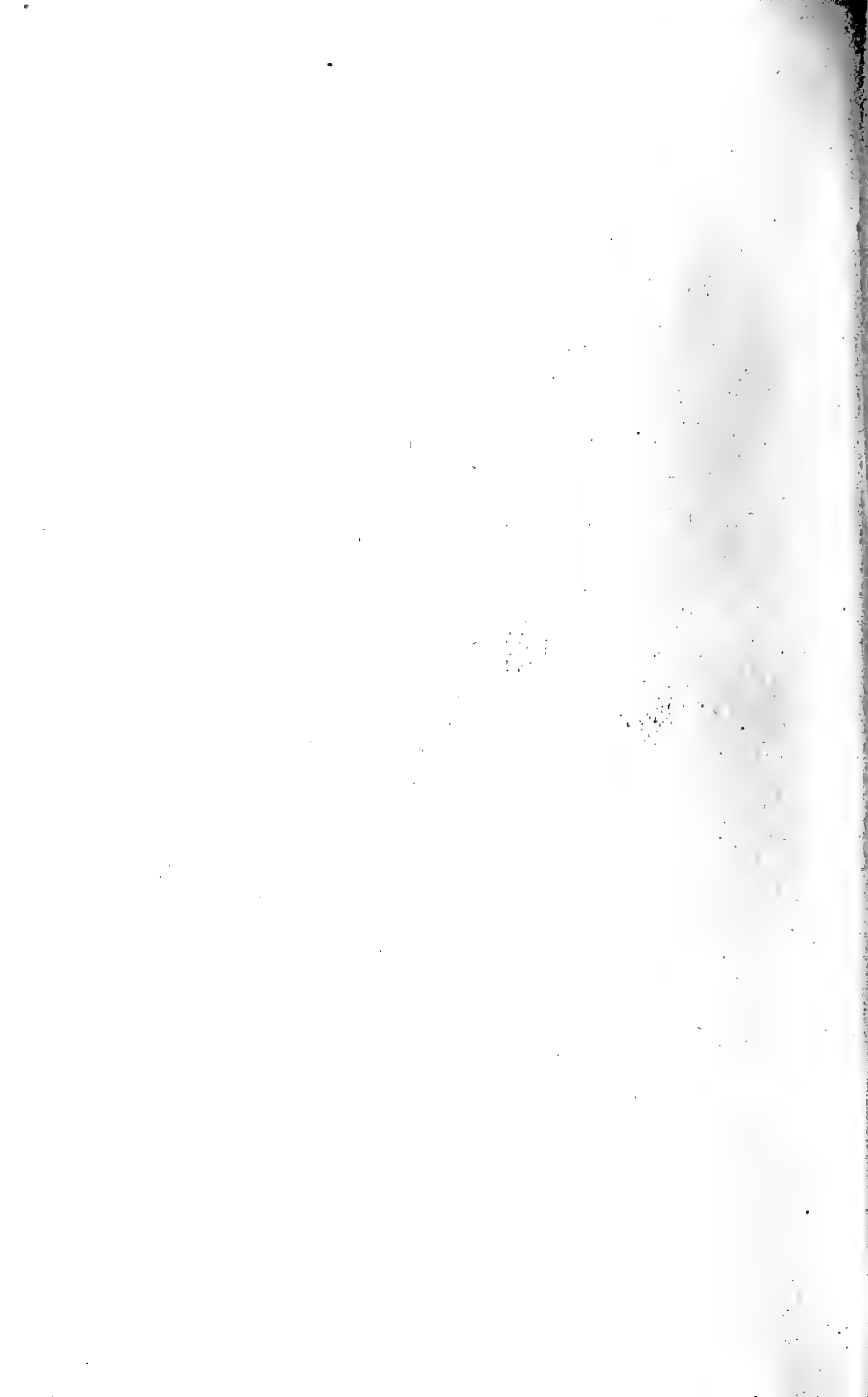


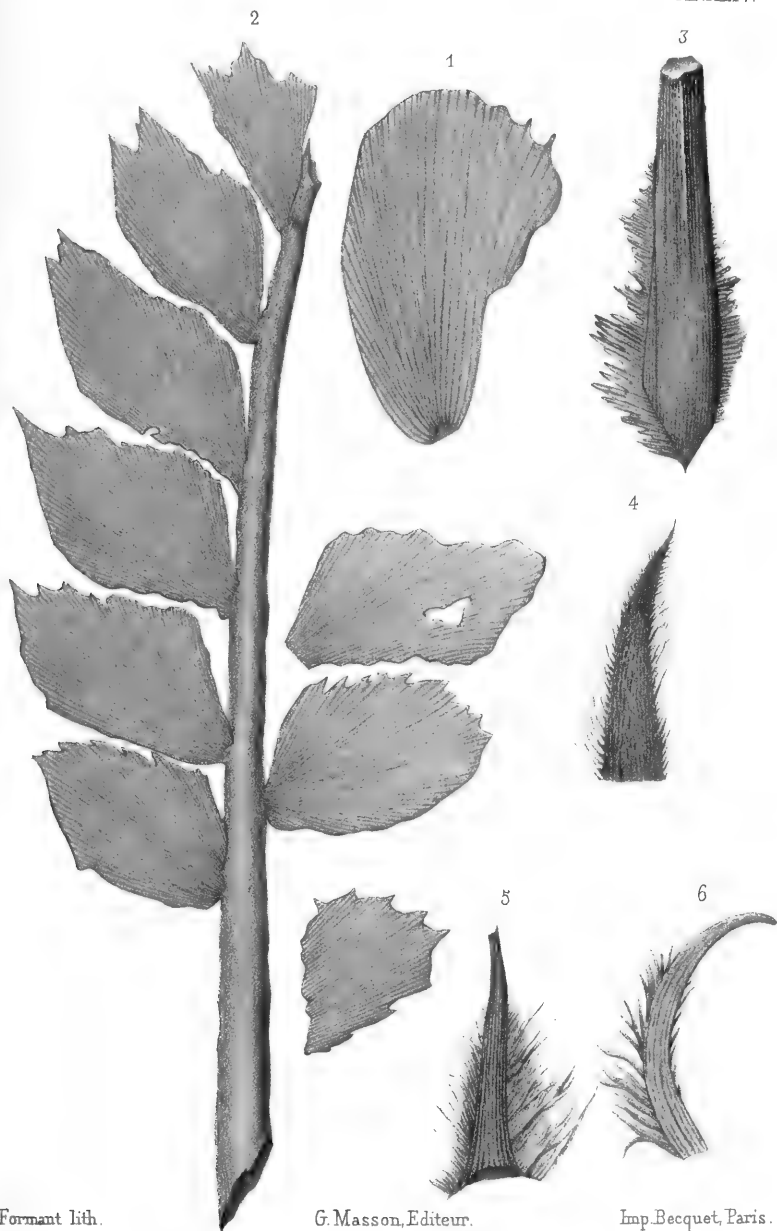
. Formant lith.

G. Masson, Editeur.

Imp. Becquet, Paris.

1-4. *Sphekozamites latifolius*, (Brongn.) Sap.





Formant lith.

G. Masson, Editeur.

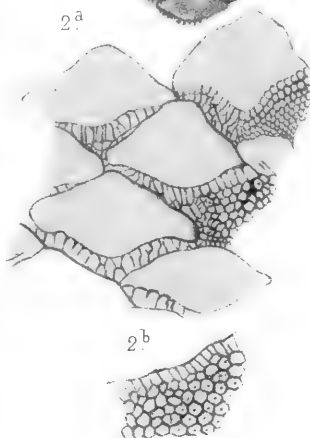
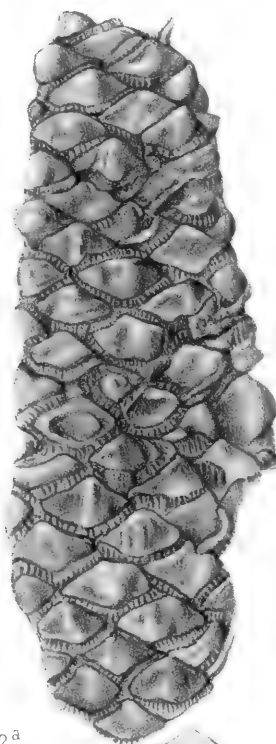
Imp. Becquet, Paris.

1-2. *Sphenozamites Rossii*, Zign.

3. *Cycadorachis abscisa*, Sap.

4. *Cycadolepis villosa*, Sap.

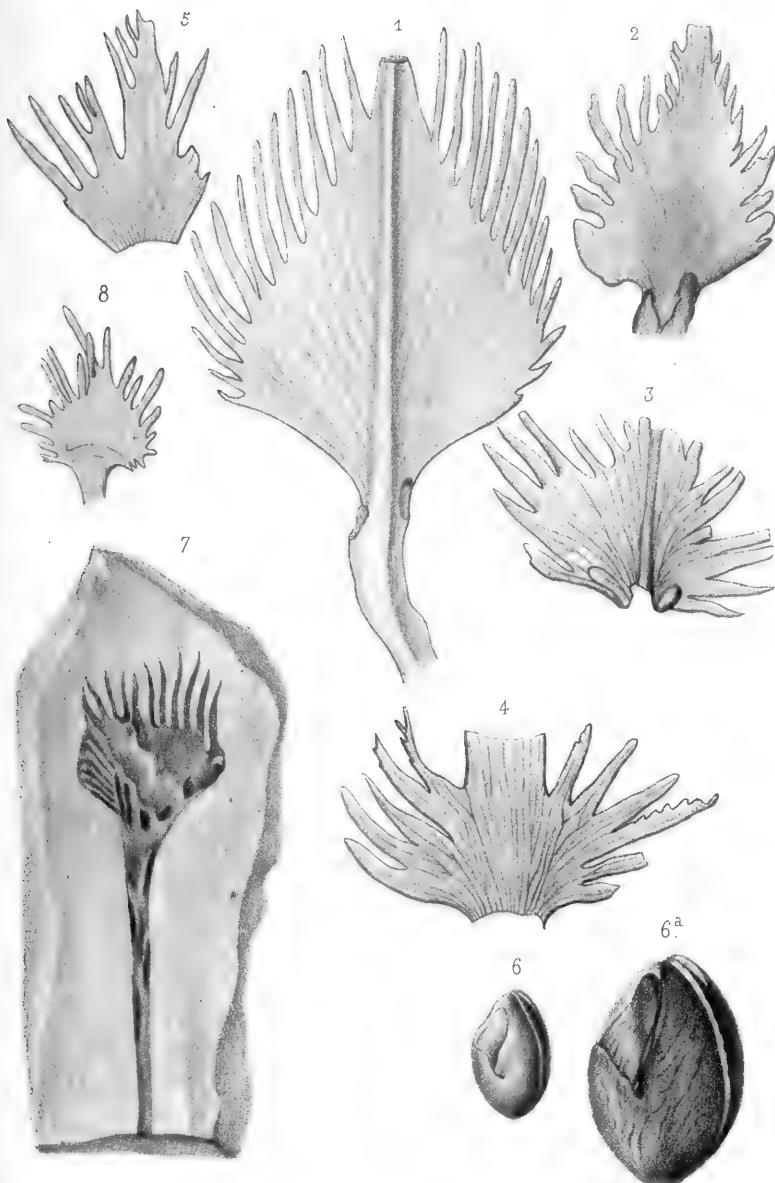
5-6. *C. _____ hirta*, Sap.



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G. Masson, Editeur.

Imp. Becquet, Paris.



Formant lith.

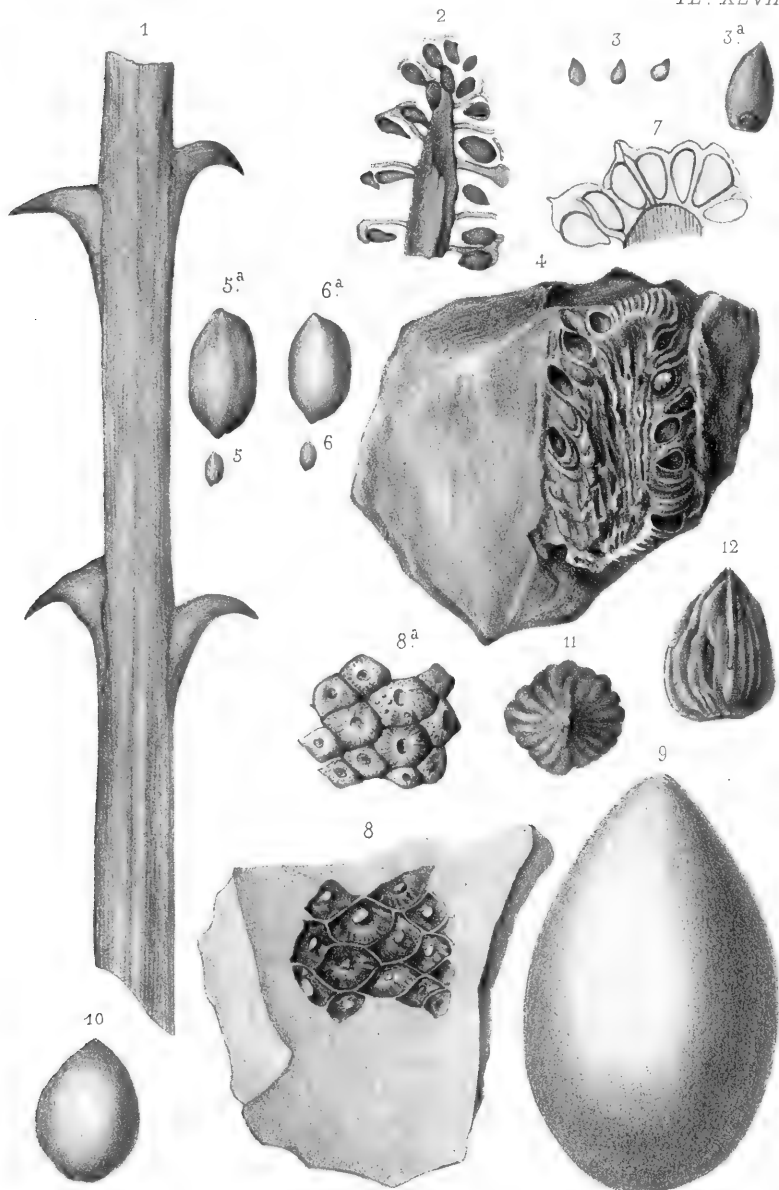
G. Masson, Editeur.

Imp. Becquet, Paris.

1 - 5. *Cycadospadix Hennoquei*, Schimp.

6. *Cycadeospermum hettangense*, (Schimp.) Sap.

7 - 8. *Cycadospadix Moræanus*, Schimp.

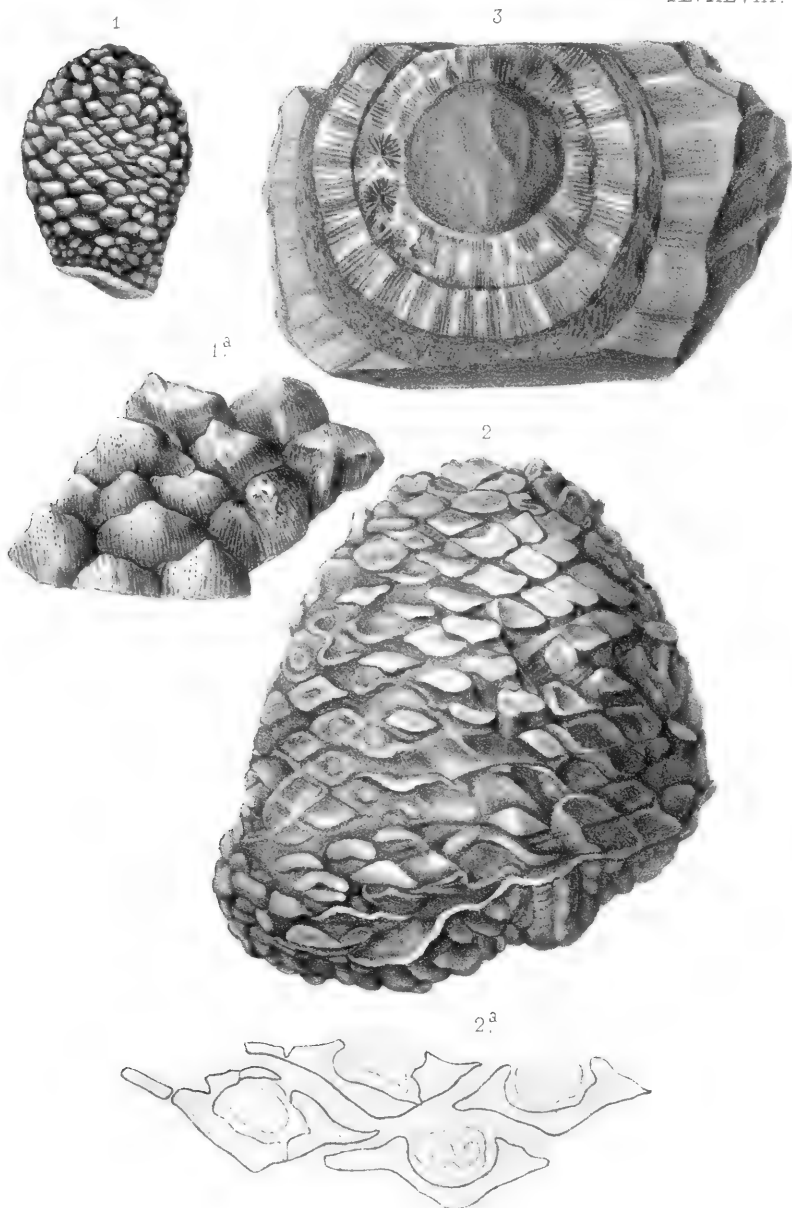


Formant lith.

G. Masson, Editeur.

Imp. Becquet, Paris

- | | |
|-------------------------------------------|---------------------------------------|
| 1. <i>Cycadorachis armatus</i> , Sap. | 9. <i>Cycadeospermum Pomelii</i> , S. |
| 2-7. <i>Zamiostrobus Ponceleti</i> , Sap. | 10. <i>C. _____ wimillensis</i> |
| 8. <i>Z. _____ index</i> , Sap. | 11-12. <i>C. _____ Schlumberg</i> |



Formant lith.

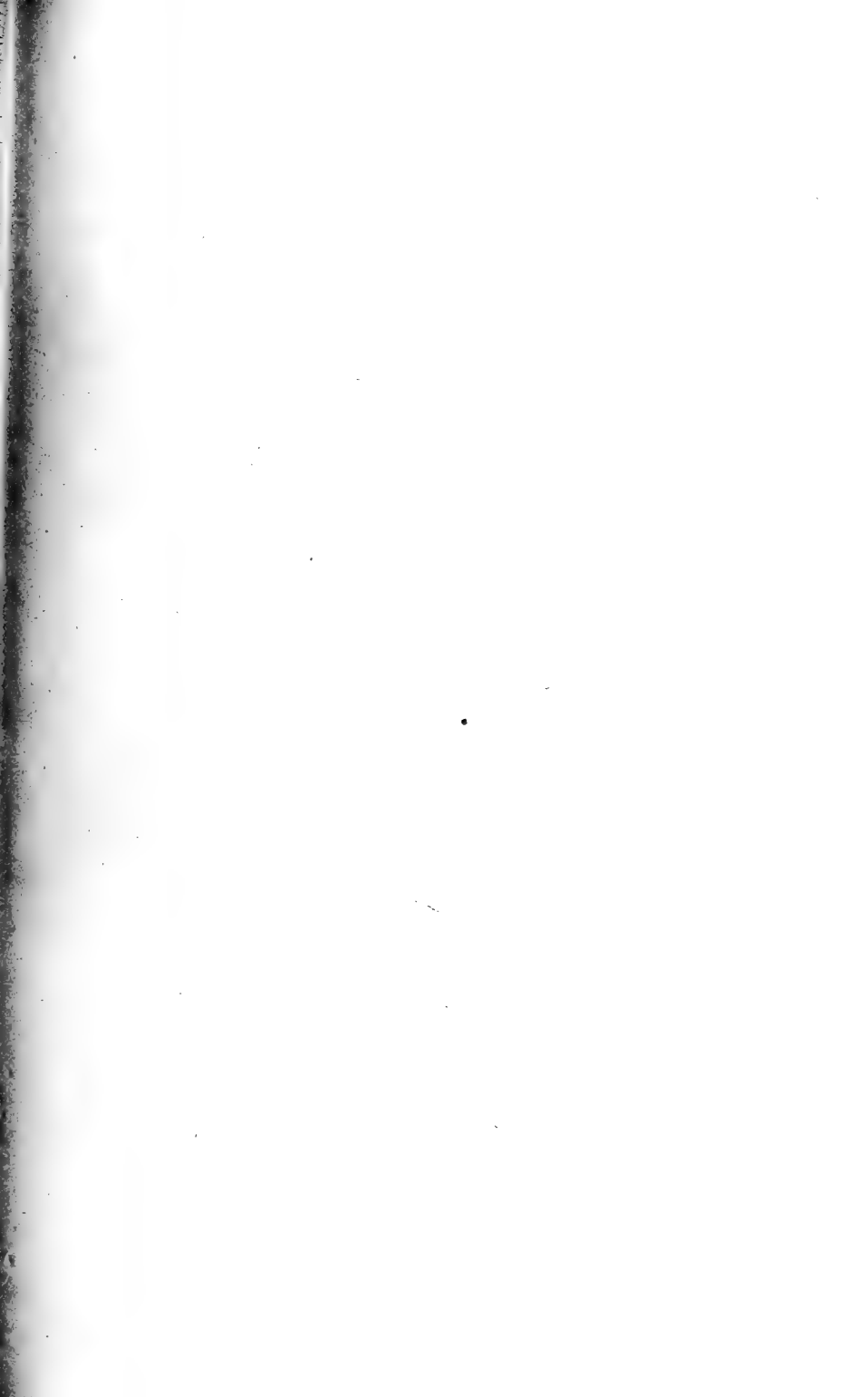
G. Masson, Editeur.

Imp. Becquet Paris.

1. *Bolbopodium micromerum*, Sap.

2. *B. pictaviense*, Sap.

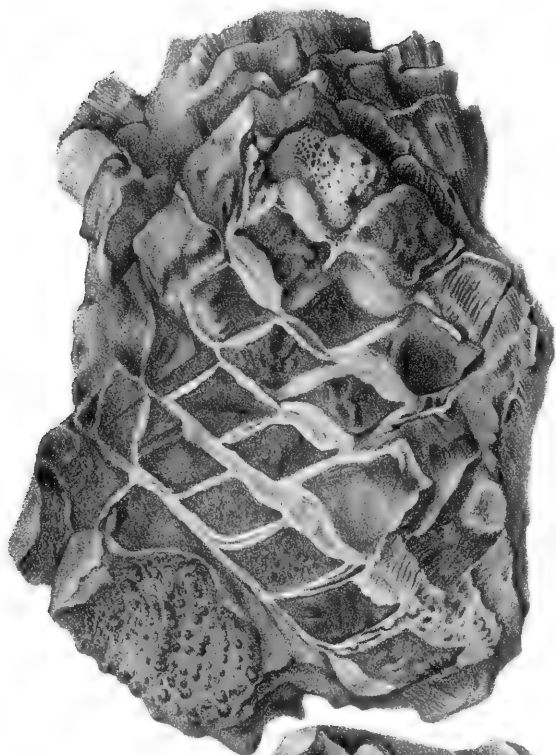
3. *Cylindropodium liasinum*, (Schimp.) Sap.



T. Jurassique. Végétaux.

Pl. CXIX.

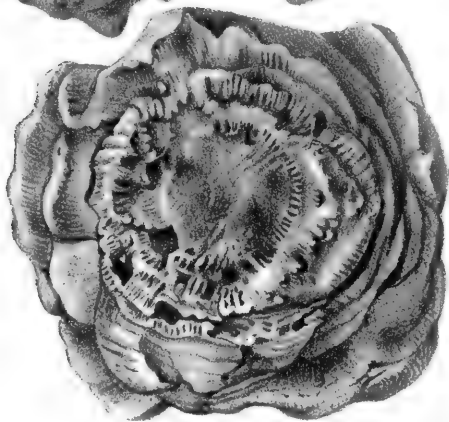
1



3



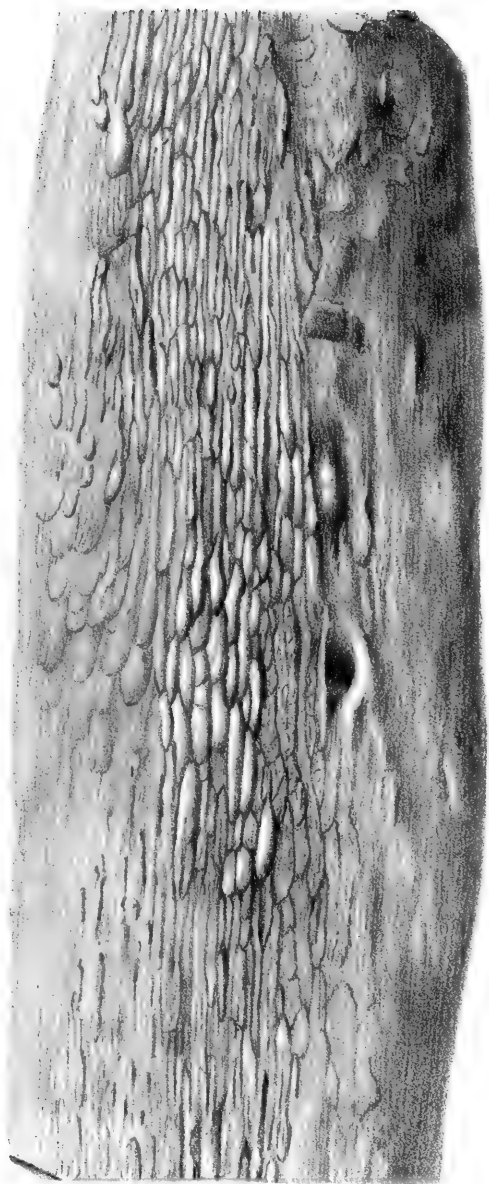
2



Formant lith.

- 1-2. *Cylindropodium liasinum*, (Schimp)
 3. *C.*——— *gracile*, (Pom.) S

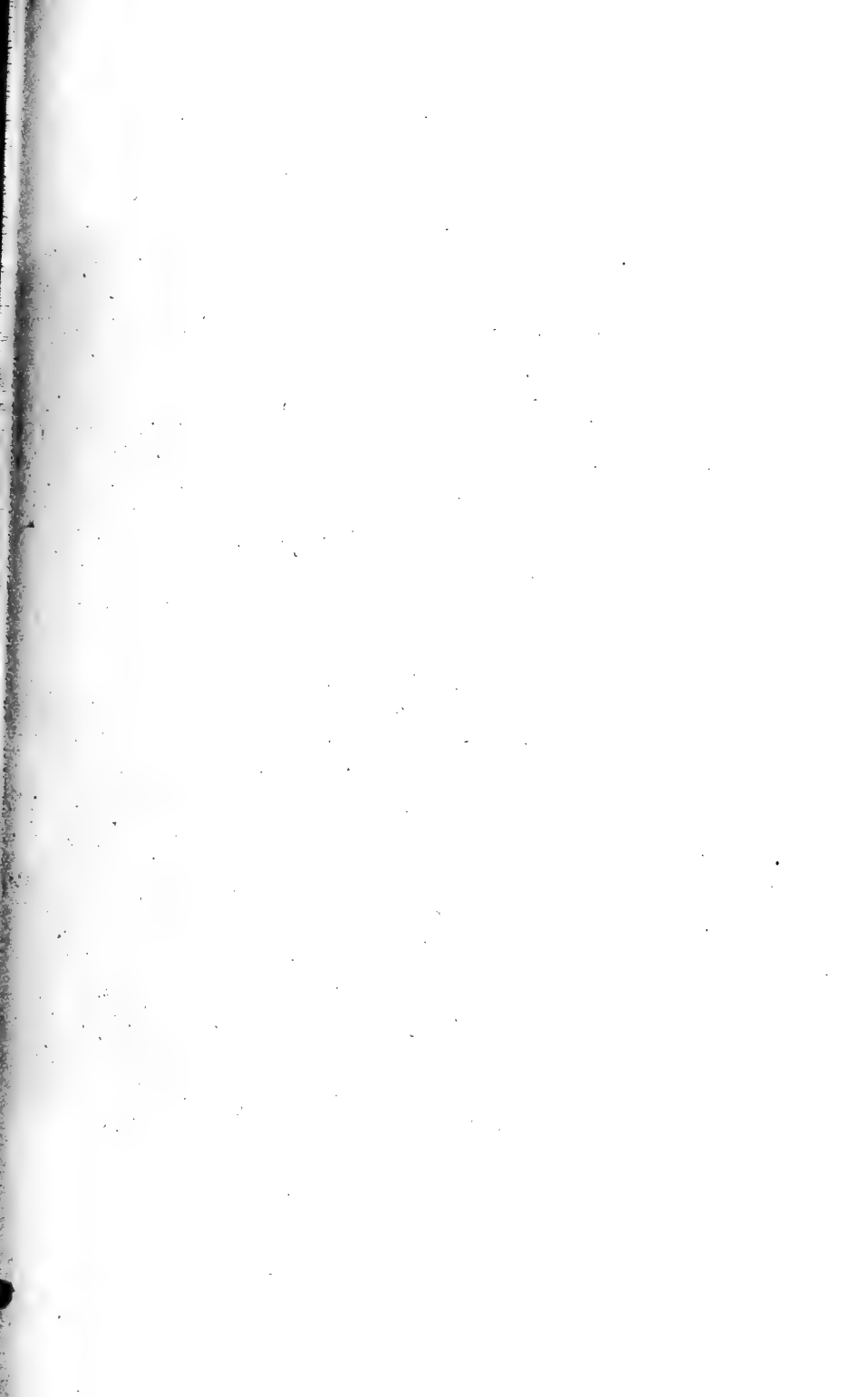
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Imp. Becquet, Paris.

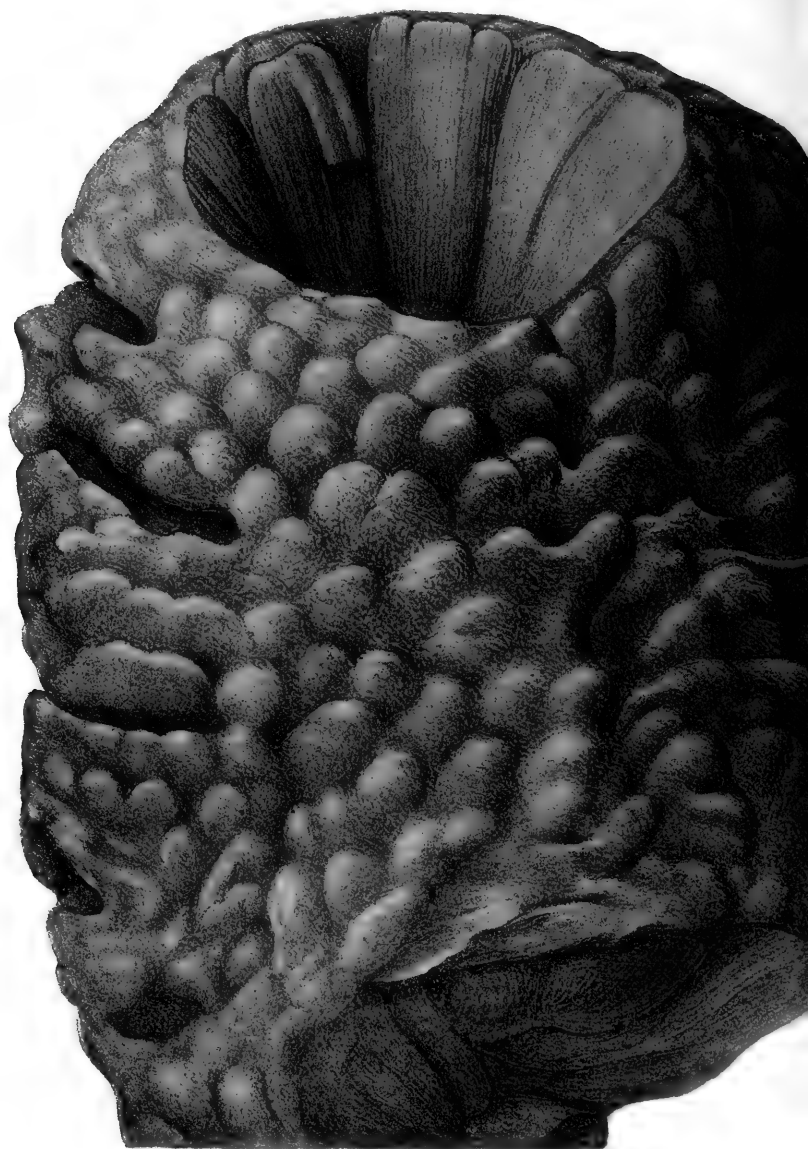
Cylindropodium Deshayesi, Sap.
Cycadomyelon hettangense, Sap.





T. Jurassique. Végétaux.
PL. CXX.

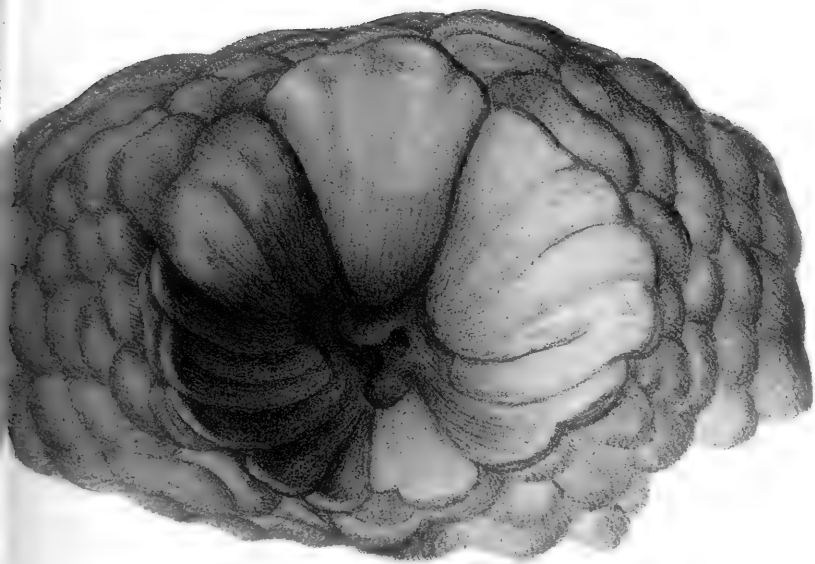
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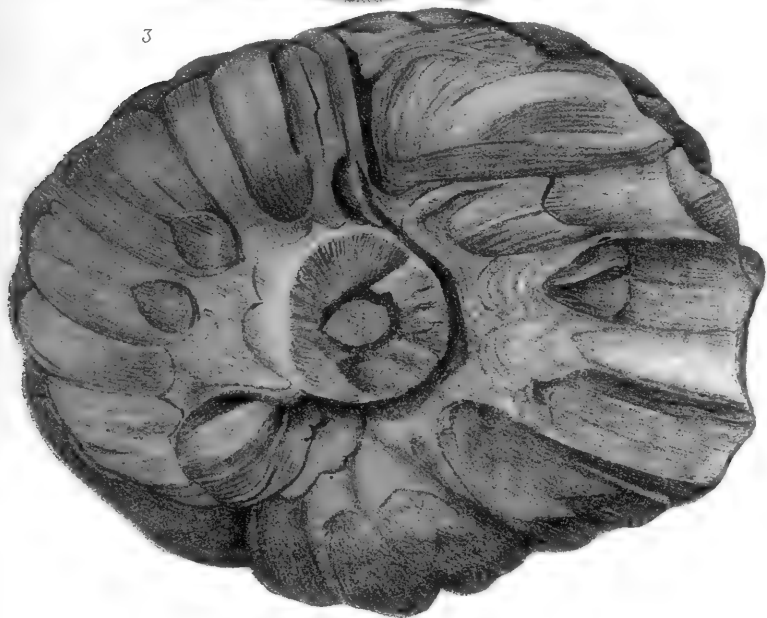
Formant lith.

1 — 3. *Platylep*

2

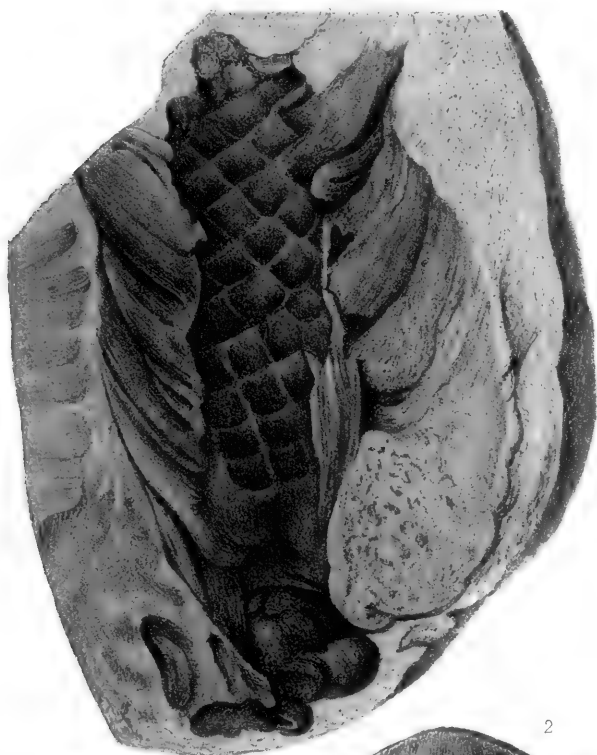


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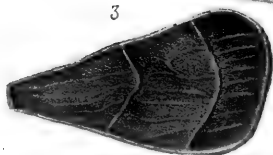


Imp Becquet, Paris. p v

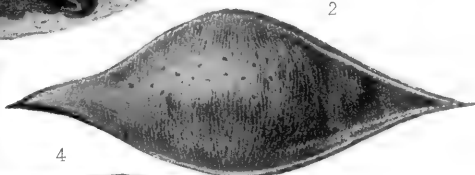
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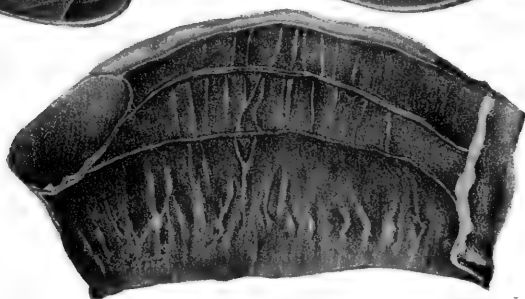
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2



4



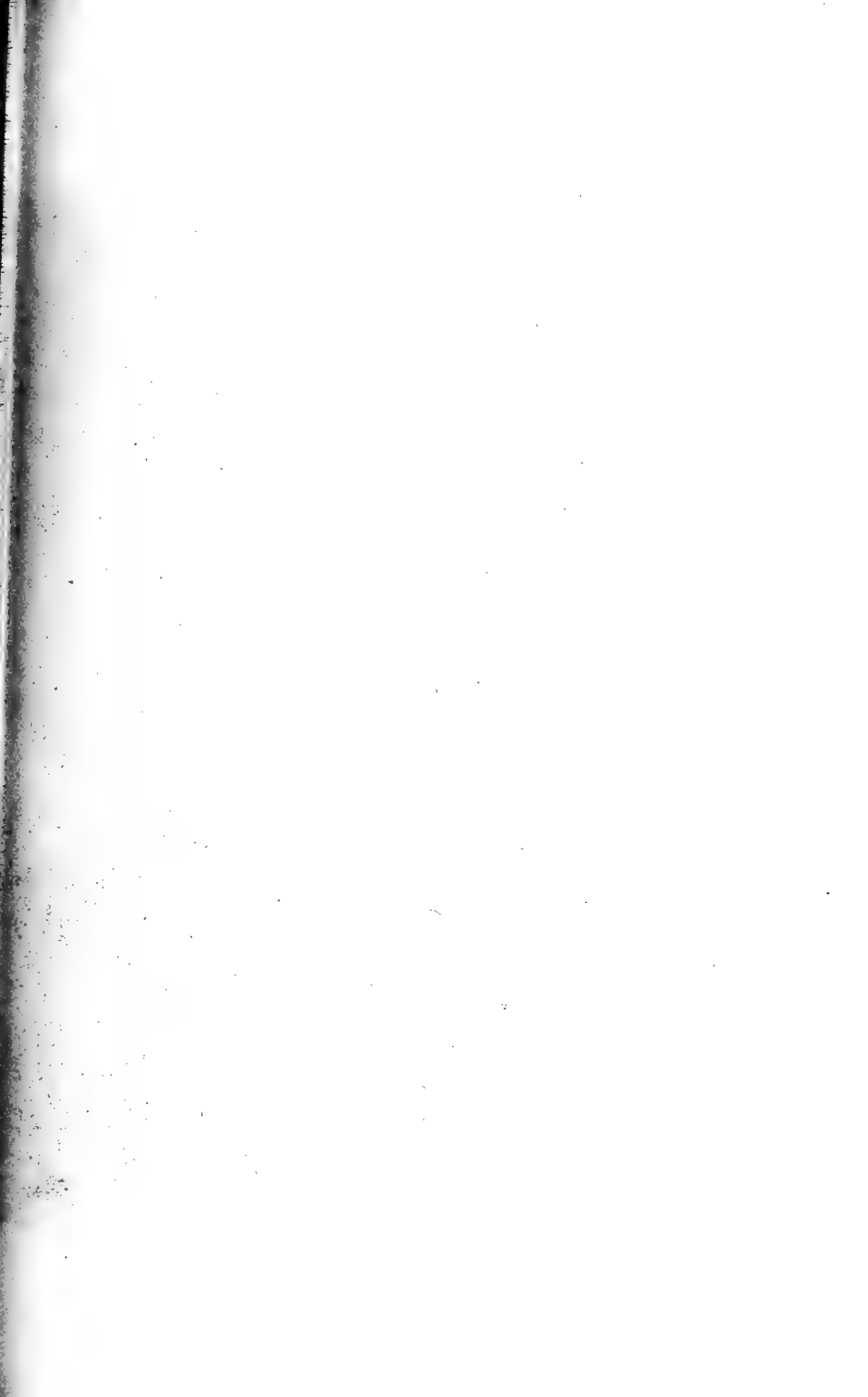
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1. *Platylepis impressa*, Sap.

2 - 4. *Encephalartos Altensteini*, Lehm. (Appendice cortical.)



*T. Jurassique. Végétaux.**PL. CXXII.*

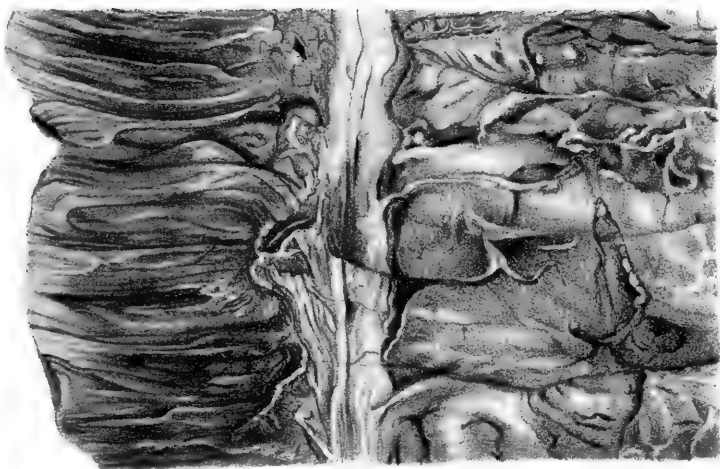
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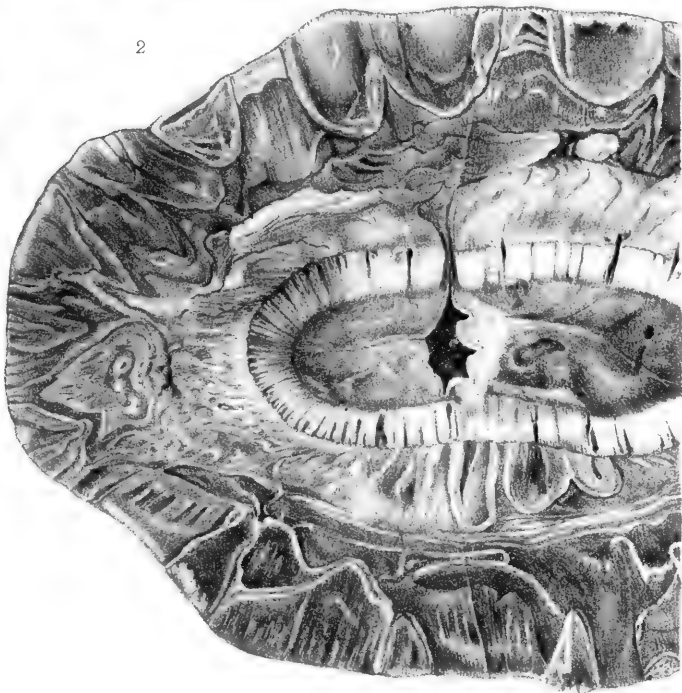
Formant lith.

1-3. Clath.

3



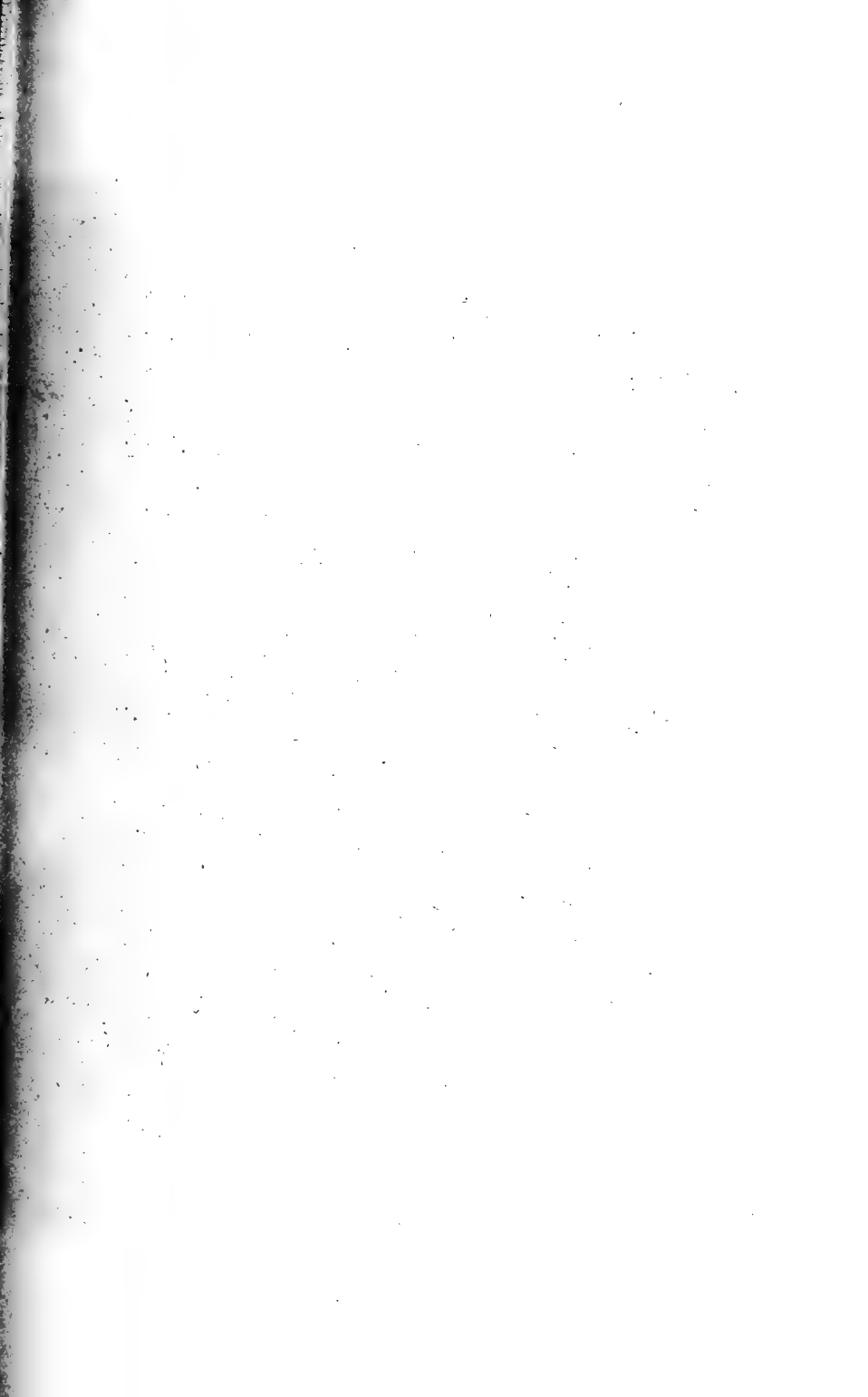
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teur.

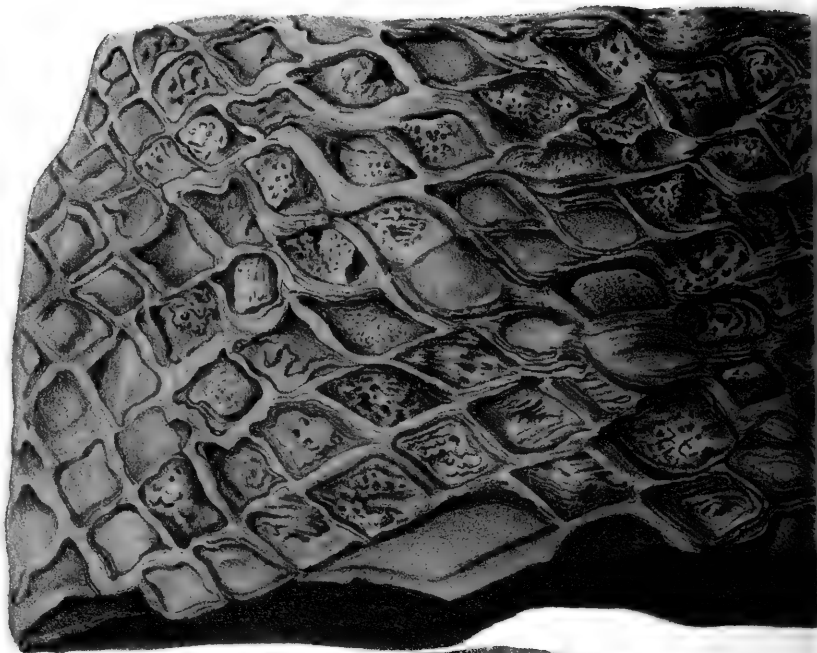
Imp. Becquet, Paris. p.v.

Trigéri, Sap.

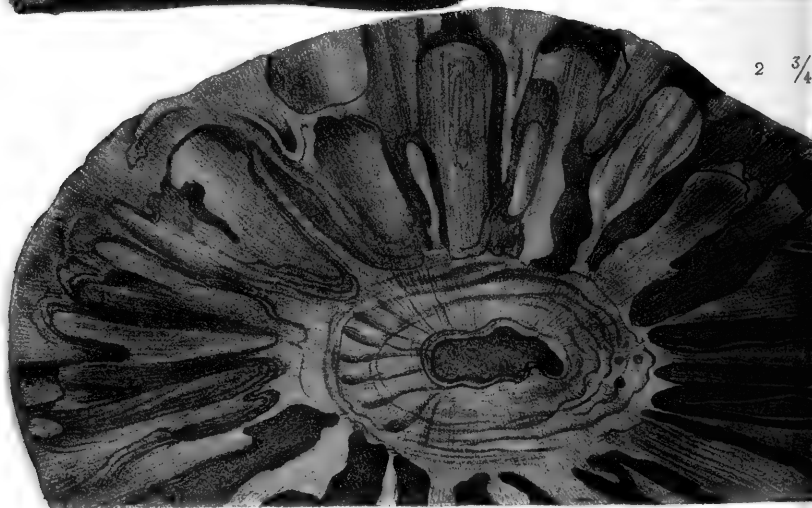


T. Jurassique. Végétaux.
PL. CXXIII.

1 $\frac{3}{4}$



2 $\frac{3}{4}$



Formant lith.

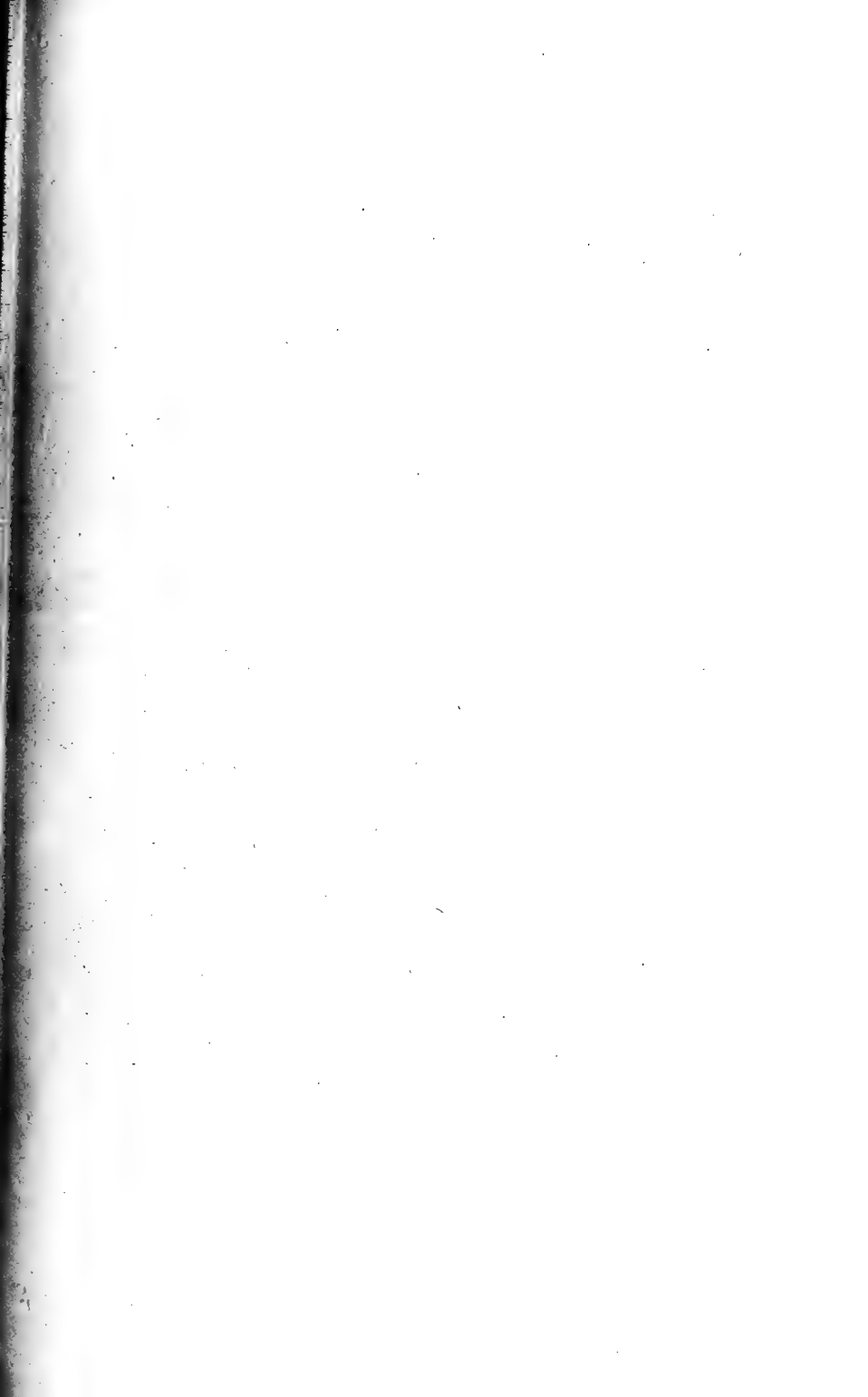
1 - 2. Cla
 3 - 5. Fitt



eur

Imp Berquet Paris .

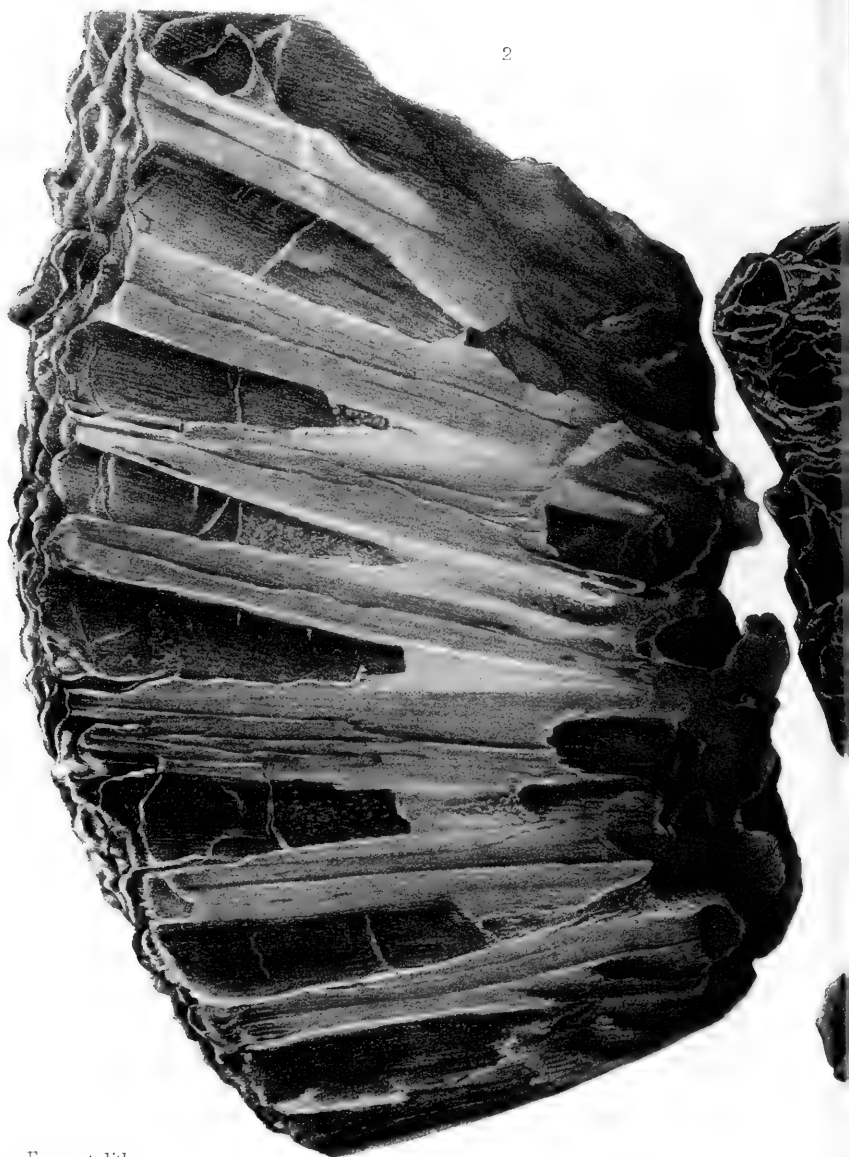
sarlatense, Sap.
 iartii, (Morière) Sap.



T. Jurassique. Végétaux.

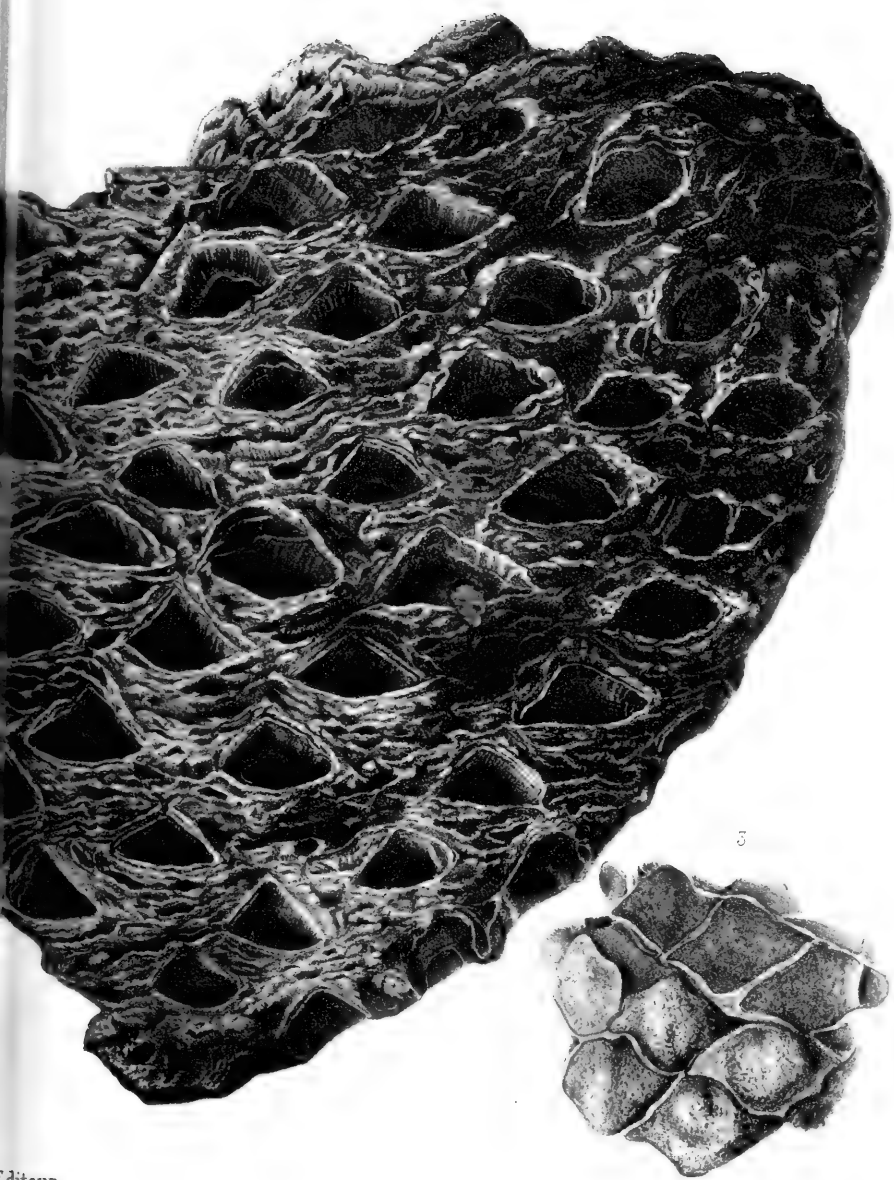
PL. CXXIV.

2



Formant lith.

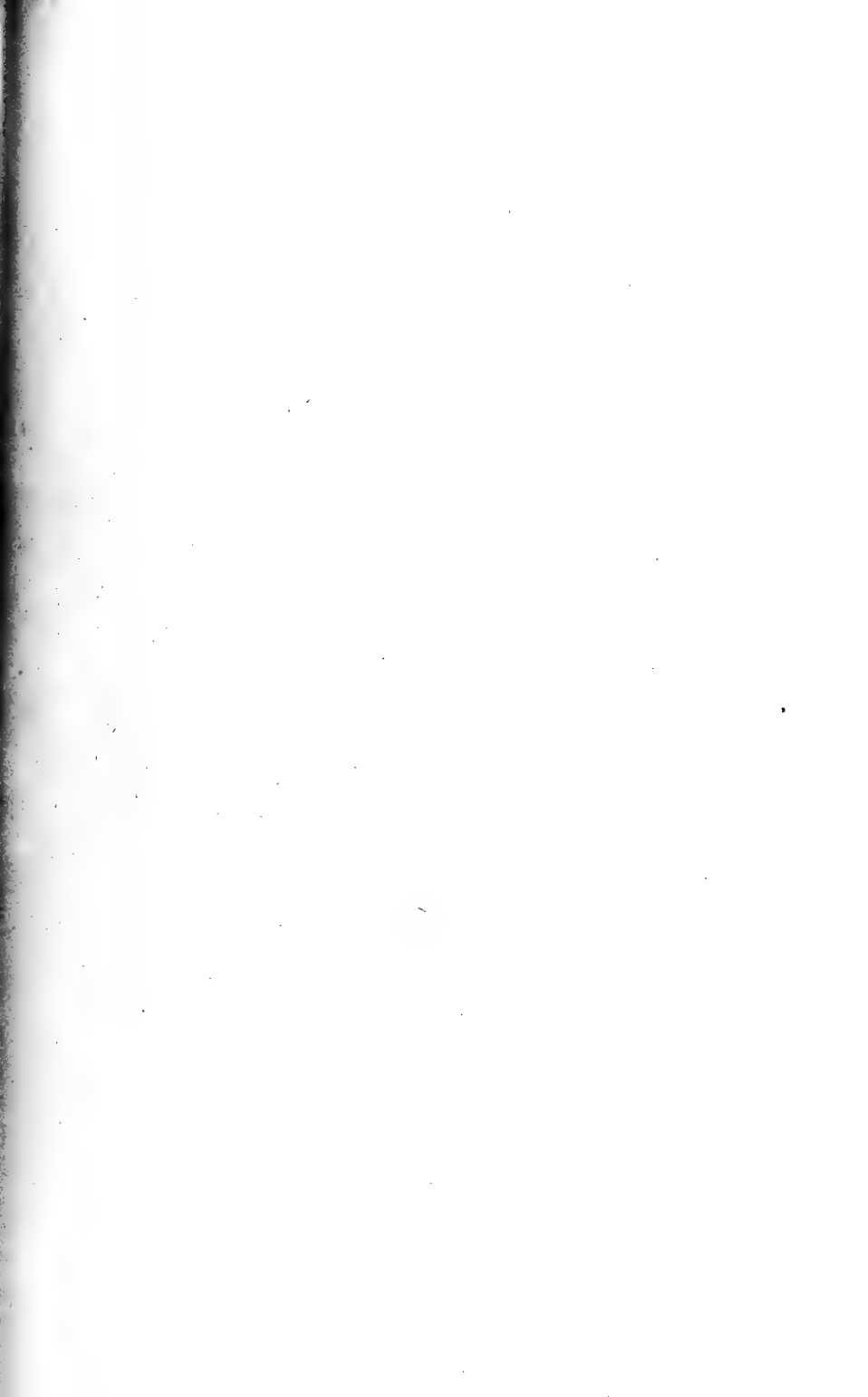
1 — 2. Clathro
3 — 4. Cylindro



Editeur.

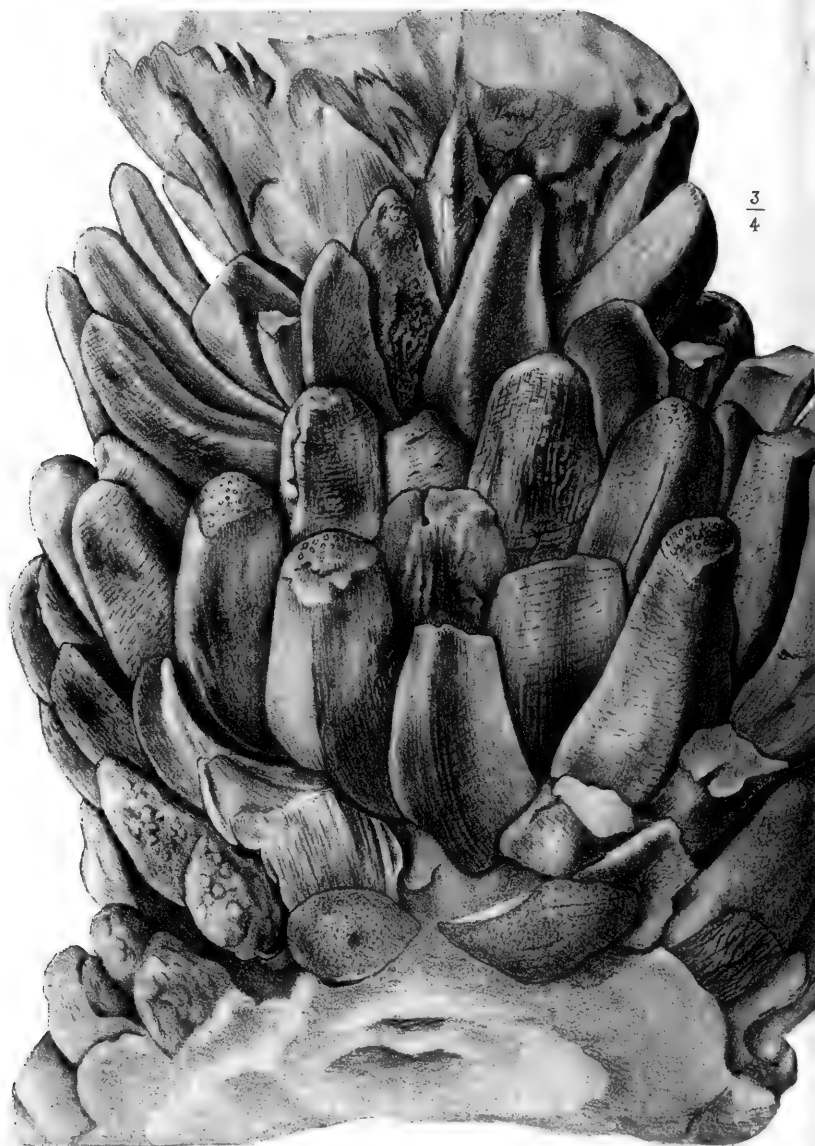
Imp Becquet Paris. p v

atum , Sap.
sinum , (Schimp.) Sap.



T. Jurassique. Végétaux.
PL. CXXV.

1



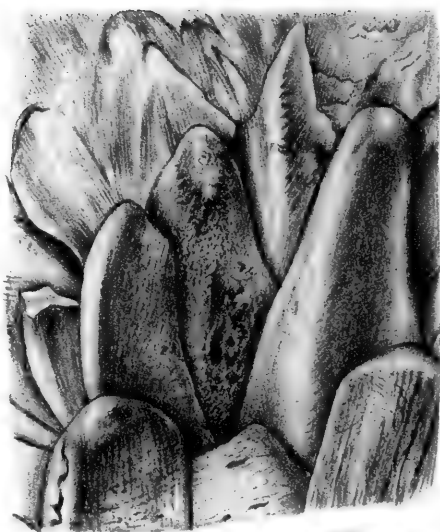
$$\frac{3}{4}$$

Formant lith.

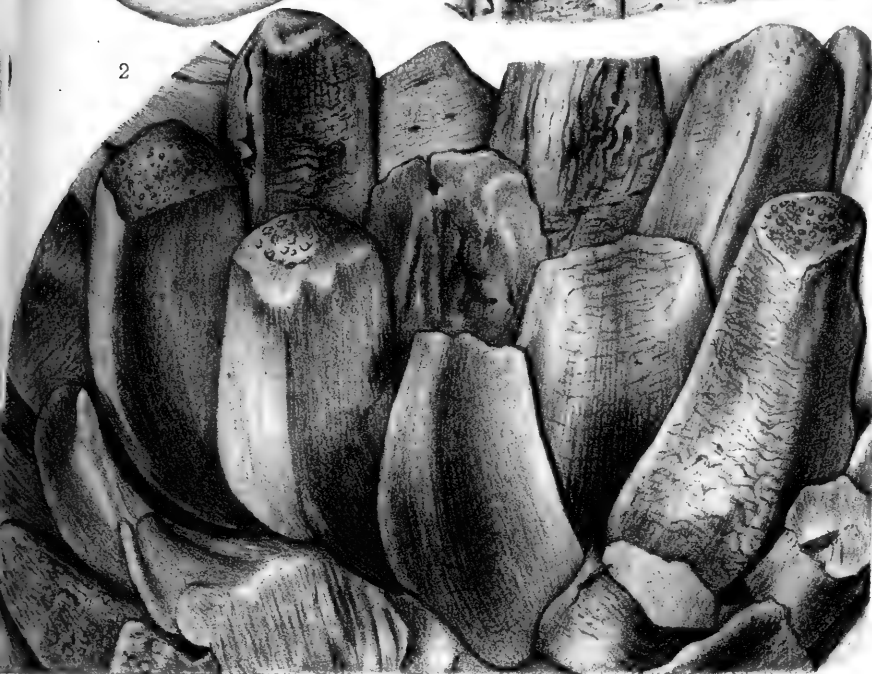
1-3. F
 4. F

3

4



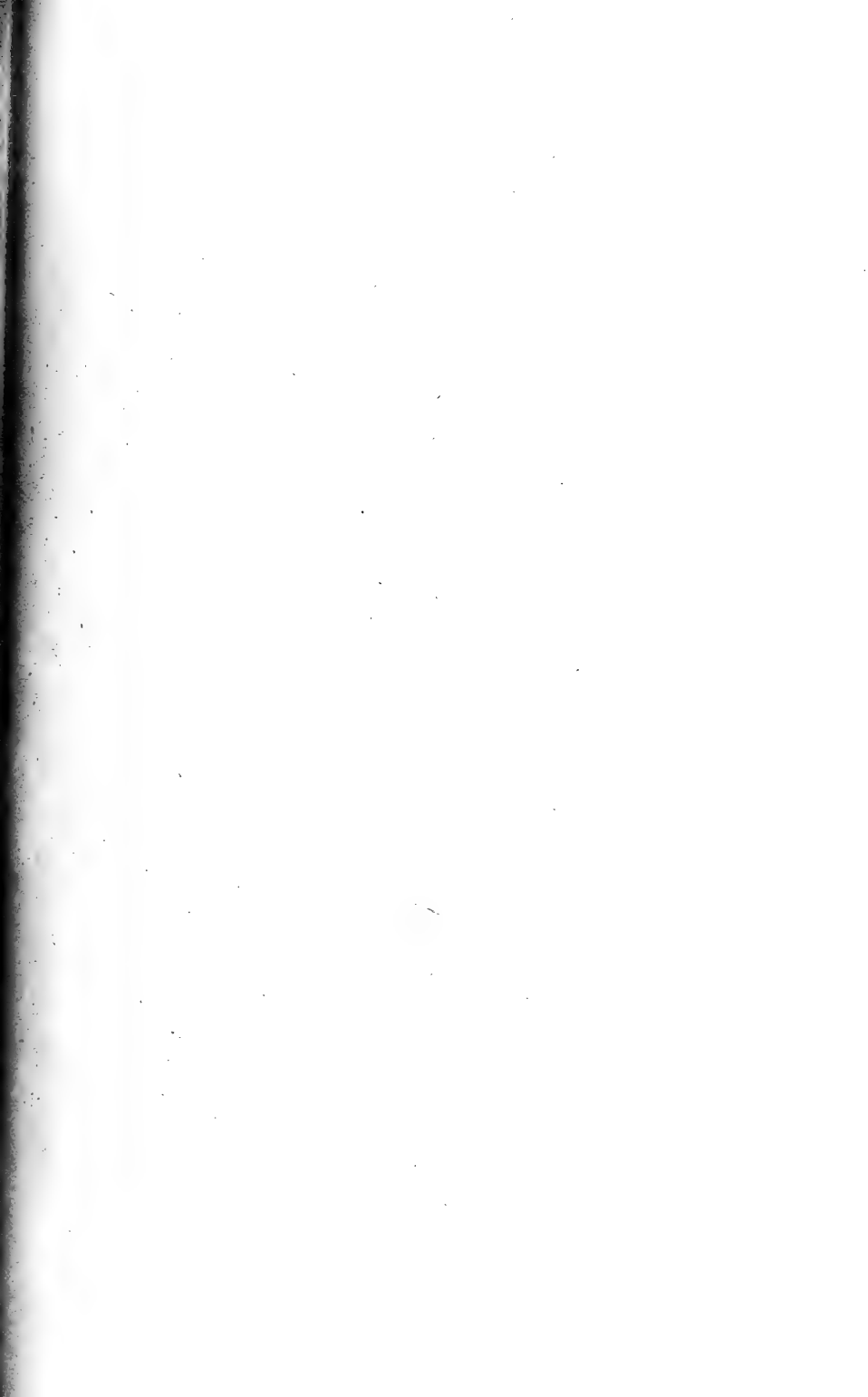
2



eur.

Imp. Becquet Paris.

ignis, Sap.
amata, Carr.



T. Jurassique. Végétaux.

PL. CXXVI.

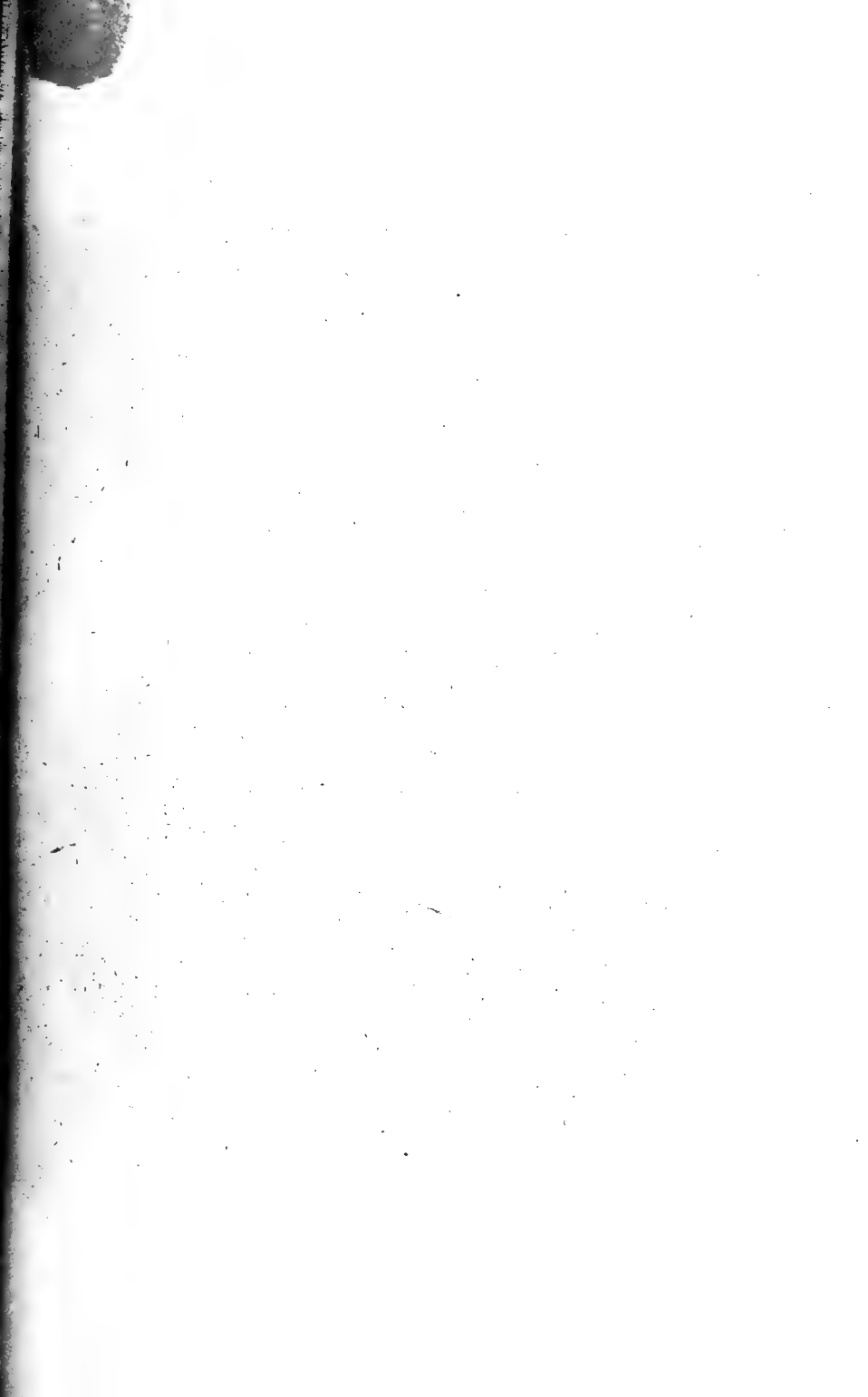
1



Formant lith.



Imp. Becquet Paris.



L. Jurassique. Végétaux.

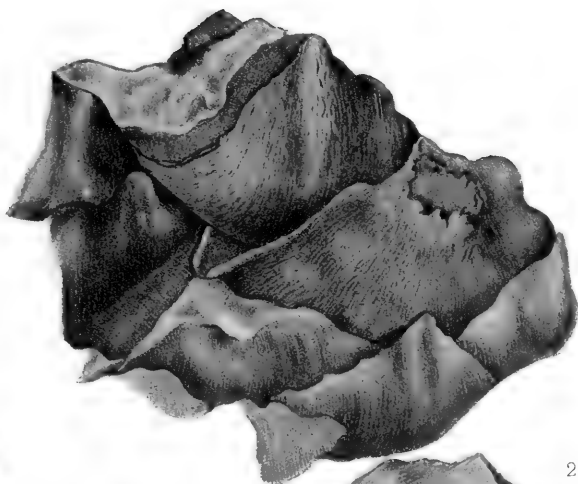
PL. CXXVII.

1



Formant lith.

3



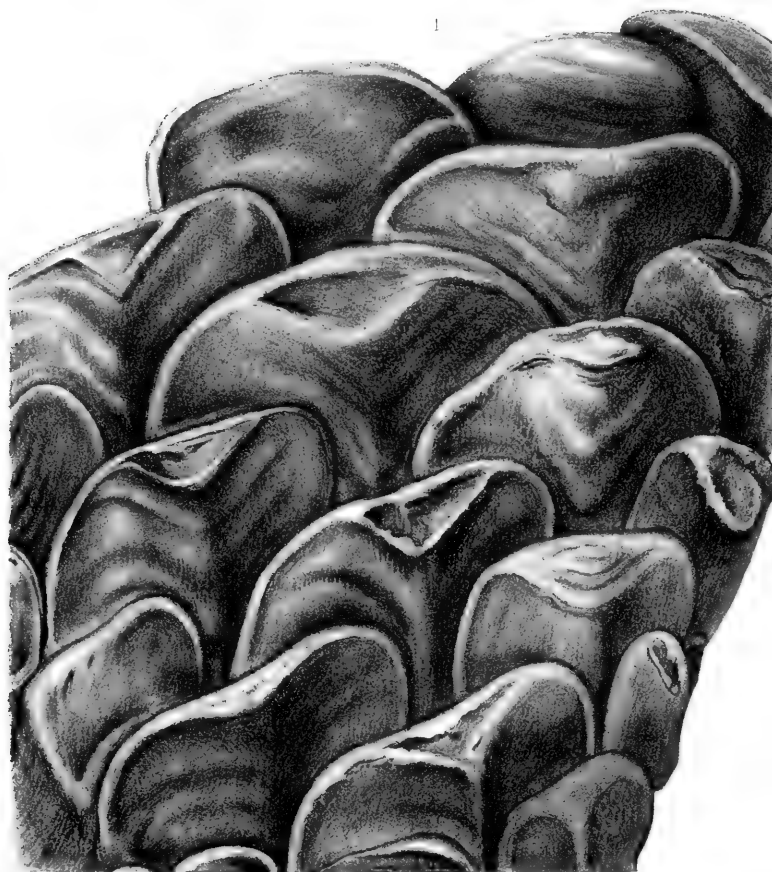
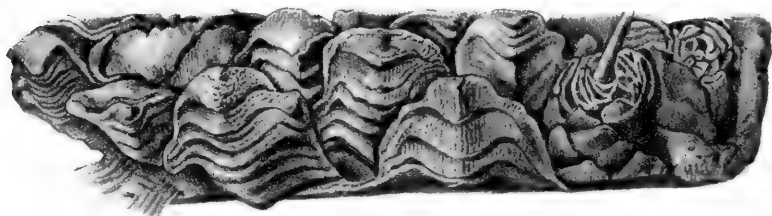
2



ur.

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gauxi, Sap.

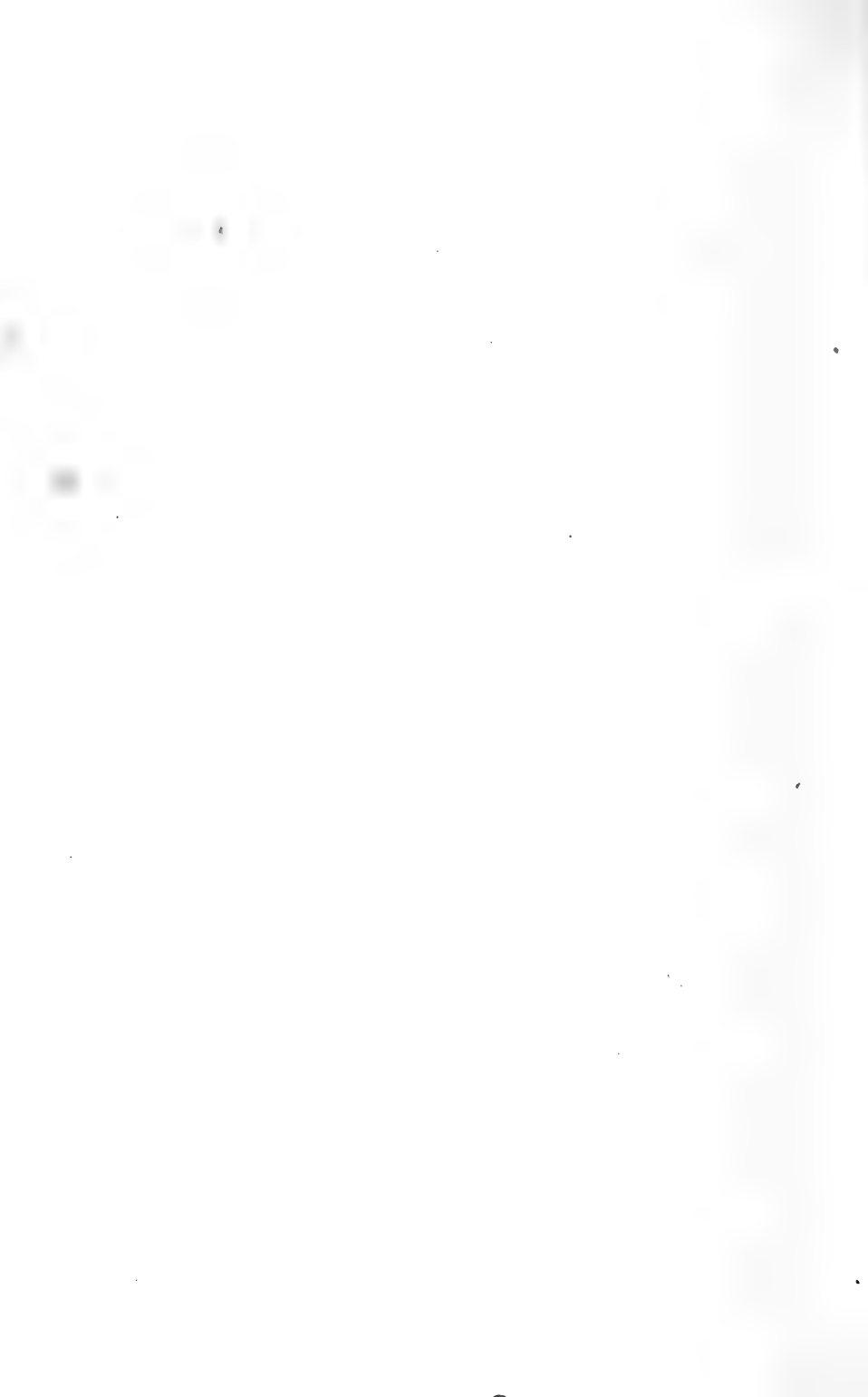


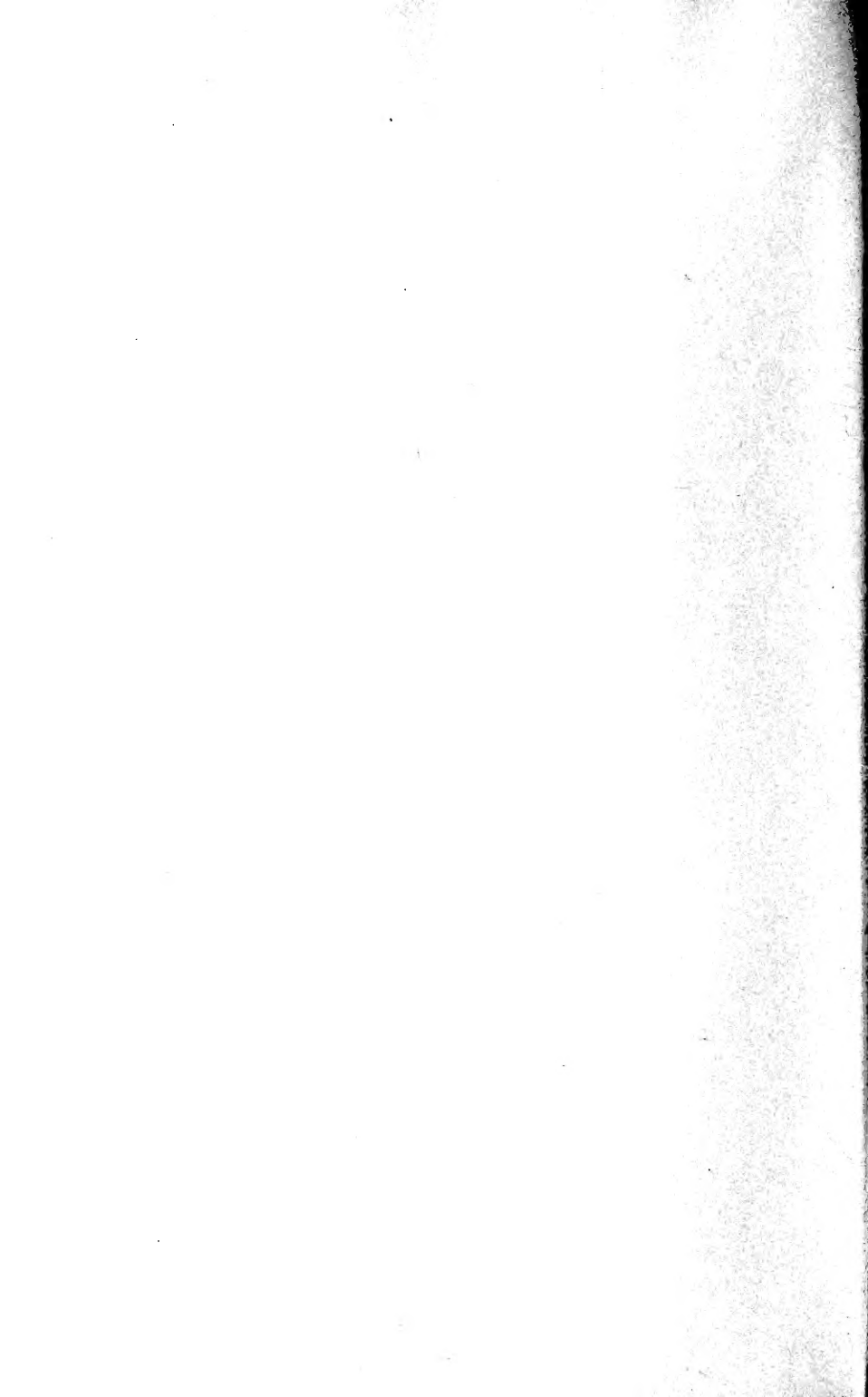
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Imp. Becquet, Paris.

1. *Bucklandia anomala*, Presl.
2. *Cycas revoluta* L. (Appendices corticaux.)





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